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## ORGANIZED FOR THE INCREASE AND DIFFUSION OF GEOGRAPHIC KNOWLEDGE

TO carry out the purposes for which it was founded forty seven years ago the National Geographic Society publishes this Magazine monthly. All receipts are invested in the Magazine itself or expended directly to promote geographic knowledge.

ARTICLES and photographs are desired for material which the Magazine can use. Generous remuneration is made. Contributions should be accompanied by addressed return envelope and postage.

THE Society also had the honor of subscribing a substantial sum to the expedition of Admiral Peary who discovered the North Pole and contributed \$75,000 to Admiral Byrd's Antarctic Expedition.

NOT long ago The Society granted \$25,000 for the expedition of Dr. Hensley to the Amazon.

THE Society's notable expeditions to New Mexico have pushed back the historic horizons of the Southwestern United States to a period of prehistoric times.

THE Society's notable expeditions to Venezuela have pushed back the historic horizons of the Southwestern United States to a period of prehistoric times.

AT an expense of over \$50,000 The Society sent a notable series of expeditions into Peru to investigate the traces of the Inca race. Their discoveries form a valuable store of our knowledge of a civilization existing when Quetzalcoatl and Cortez were in Peru.

# CUMULATIVE INDEX

TO THE

## National Geographic Magazine 1899 to 1934, inclusive

With a Foreword

The National Geographic Society and Its Magazine

By GILBERT GROSVENOR



NATIONAL GEOGRAPHIC SOCIETY

WASHINGTON, D C

U S A

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WASHINGTON, D. C.

# THE NATIONAL GEOGRAPHIC SOCIETY AND ITS MAGAZINE

By GILBERT GROSVENOR

**T**HIS book is the key to a treasure trove—the vast store of information concerning the world, its peoples and creatures published in the brilliantly illustrated pages of the NATIONAL GEOGRAPHIC MAGAZINE from 1899 to the present year.

Almost unbelievable is the growth in the number of members of the National Geographic Society and the readers of its Magazine in that 36 year interval. When your present Editor and President was asked by Alexander Graham Bell to take charge of The Magazine, in April, 1899, The Society's membership was so small that he could carry the entire edition of one month on his back. Today a single issue would form a pile more than five miles high rivaling Mount Everest, or 50 piles, each as tall as the Washington Monument. The ink alone used in printing each issue weighs five and a quarter tons—as much as 70 men could carry.

In those early days it was customary to print in The Magazine the names and addresses of the members. To do so today in small type allowing 50 names to a page would require 20 000 pages, filling solidly more than 12 years of GEOGRAPHICS with out another word or a single picture.

## READ BY FIVE MILLION PERSONS

A welcome guest in a million homes, The Society's Magazine with its appeal to all members of the family is estimated to have reached each month during the last 15 years an average of 5 000 000 readers.

To collect print and distribute on such a scale the enormous reservoir of valuable geographic knowledge indexed on the following pages is a publishing labor of Hercules which no individual or small group of individuals would even undertake. The method by which it has been accomplished is as unique as the material itself and the story is the remarkable history of the National Geographic Society.

Nowhere in the world is there another magazine exactly like the NATIONAL GEOGRAPHIC. In its conception contents and policy it differs wholly from any other publication. It is published and owned by a society of a million members organized for the increase and diffusion of geographic

knowledge. Its purpose is and always has been to promote science and education and it educates in the most effective way by portraying this thrilling world and its life in clear, vivid, comprehensible manner, stripped of dull technical verbiage, and mirrored in many striking pictures.

Who can even begin to estimate the cultural results of distributing this readable, easily understood humanized, and picturized knowledge among millions of people not only of the United States, but of foreign lands decade after decade?

Some of the ablest minds in America have contributed their talents to the organization and building of The Society. Graduates of 35 colleges and universities now carry on its researches and editorial work.

The many millions of dollars required to publish these 36 years of GEOGRAPHICS have been supplied year after year by the dues of the members of the National Geographic Society, who have increased from 1 000 in 1899 when the first number herein indexed was printed to 1,000 000 in 1935. Their modest three dollar annual dues pay for 12 numbers of The Magazine with frequent maps and other supplements and also sustain The Society's numerous scientific expeditions and researches.

Thus the National Geographic Society is a cooperative scientific research undertaking. Only by spreading first cost over a large edition could the many expensive and worthwhile features have been provided. All The Society's activities, its Magazine and its expeditions are sustained by the membership fees of its million members.

This extraordinarily large membership in a Society whose objects are entirely scientific and educational in which the bond is intellectual not religious or fraternal or social shows that the spirit of adventure and the desire to learn and help research are fairly universal.

The Society's membership rolls include not only hundreds of thousands of the country's most cultured and substantial people but also hundreds of thousands of citizens possessing only modest educational and material advantages.

The lonely forest ranger, the clerk tied to his desk, the plumber, the teacher, the





THIS STATELY STRUCTURE ON HISTORIC SIXTEENTH STREET IN WASHINGTON IS THE NATIONAL GEOGRAPHIC SOCIETY'S HOME

Here in a modern air-conditioned building are housed The Society's editorial and executive headquarters its library of 250,000 black and white and natural-color photographs from every corner of the world a completely equipped photographic laboratory and Explorers Hall in which are preserved priceless trophies of Geographic expeditions and enlargements from staff photographers finest negatives Hubbard Memorial Hall (extreme right) home of The Society during its early days was presented as a memorial by the family of the late Gardiner Greene Hubbard its first President (see text page XVI) It now houses The Society's fine library of geography and exploration

eight year-old boy and the octogenarian, cannot, like a Carnegie or a Rockefeller, send out their own expeditions, but they do enjoy having a part in supporting explorations conducted by their own Society and reading the first hand accounts in their own Magazine

#### THE SOCIETY'S FLAG BORNE ON ADVENTUROUS JOURNEYS

Other than the flag of my country I know of no greater privilege than to carry the emblem of the National Geographic Society With these words Rear Admiral Richard E. Byrd expressed his high regard for your Society's achievements in increasing humanizing, and diffusing geographic information

Among The Society's many significant contributions to science and popular education we mention a few

**Archeological Expeditions** The Society's notable expeditions to New Mexico by Neil M. Judd and Andrew E. Douglass have pushed back the historic horizons of the southwestern United States to a period nearly eight centuries before Columbus crossed the Atlantic solving secrets that have puzzled historians for 300 years The Society's expeditions to Peru have given the world much of its knowledge of the Incas

**Solar Radiation** To further the study of long range weather forecasting The Society appropriated funds to enable the Smithsonian Institution to maintain a solar radiation station in Africa for six years

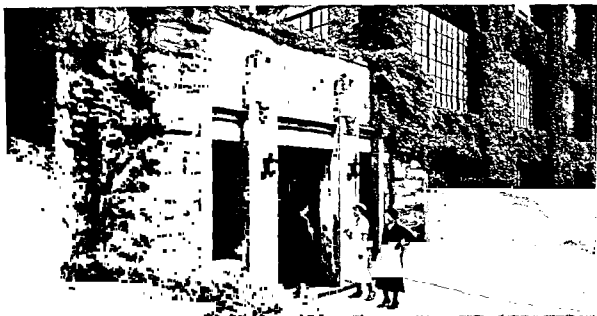
**The Valley of Ten Thousand Smokes** After the eruption of the world's largest crater Mount Katmai The Society sent five expeditions to this Alaskan volcanic area An eighth wonder of the world was discovered—the Valley of Ten Thousand Smokes—which has since been created a National Monument

**Saving the Giant Sequoia Trees** The Society and individual members purchased and presented to the Government 2,239 acres of the finest giant Sequoia and other trees within the Sequoia National Park

**Carlsbad Cavern** The Society's expeditions explored and revealed to the world this largest and most beautiful known cavern in New Mexico

**Exploration of the Stratosphere** The Society and the U. S. Army Air Corps jointly sponsored explorations of the stratosphere to gather scientific information at an altitude approaching 13 miles above sea level

**Polar Research** The Society granted funds and scientific aid amounting to \$75,000 to Admiral Byrd for his first exploration of the South Polar regions and also cooperated with the second Byrd Antarctic Expedition Admiral Byrd first gained experience in Arctic flying on the MacMillan Arctic Expedition sponsored by The Society and the U. S. Navy The Society had the honor of subscribing a substantial sum to the historic expedition of Admiral Peary who discovered the North Pole April 6, 1909



EACH MONTH A MILLION GEOGRAPHICS ARE ADDRESSED AND SENT OUT FROM THE GEOGRAPHIC ANNEX BUILDING AT THIRD AND R STREETS, NORTHEAST, WASHINGTON

In The Society's Annex which occupies a city block, a complete record of each membership is kept and the huge daily mail of thousands of letters from members scattered all over the world is received and answered. Back numbers of The Magazine and The Society's publications such as books, pictures, and maps are preserved here. More than 500 employees working in the Annex take care of the membership nominations, mail out Certificates of Membership and make the thousands of necessary changes of address for members.

*Trans Asiatic Expedition.* In 1932 the Citroen Haardt Trans Asiatic Expedition with The Society cooperating, crossed Central Asia from the Mediterranean to the Yellow Sea. Long hidden phases of life along 7,370 miles of historic caravan routes were studied and recorded for posterity.

It should be noted that under "National Geographic Society Expeditions" in the index, only the more technical ones are listed. The Society's photographers and writers have made too many expeditions to be indexed as such, and these will be found under the name of the country, State, or region visited.

#### A LIBRARY OF PERMANENT INTEREST

When bound these 432 issues from 1899 through 1934 form a library of 55 large volumes of considerable monetary value. For a complete set collectors pay hundreds of dollars. Yet a person joining The Society at its formation in 1888 and continuing a member until 1935 would have received this entire collection for \$88 in dues, or a life membership might have been purchased in 1888 for \$50. It is hard to conceive of a better dividend paying investment, even when only the financial aspect is considered and the incalculable cultural and entertainment value is ignored.

In collecting GEOGRAPHICS many persons have found an absorbing and sometimes remunerative pursuit. A single number published in the early years may bring from seven to eighty dollars, depending upon its condition and the scarcity of the particular issue.

A copy of THE GEOGRAPHIC rarely outlives its interest. Few indeed ever find their way back to the paper mills. The quality of the paper is so excellent that numbers printed more than a quarter of a century ago are still as sound and legible as when they were issued. More volumes of THE GEOGRAPHIC are bound than of any other magazine, and the binding of GEOGRAPHICS has become a big business. The bound copies are constantly consulted by students, teachers, travelers, artists, scientists, persons in a hundred walks of life. Most large public libraries, schools, and numerous individuals have complete or nearly complete files and to make the voluminous contents more readily accessible, this cumulative index is issued.

The subject matter covers almost the entire range of Nature, from the ant to the elephant, from the humming bird to the trumpeter swan, from tiny tropical fish to the gigantic whale, from the microscopic





ADMIRAL ROBERT E PEARY, DISCOVERER OF THE NORTH POLE, PRESENTS TO ROALD AMUNDSEN, DISCOVERER OF THE SOUTH POLE, THE SPECIAL GOLD MEDAL OF THE NATIONAL GEOGRAPHIC SOCIETY, JANUARY 11, 1913

The others in the group at the table beginning on the extreme left, are The Chinese Minister Mr Chang Yin Tang, Madame Chang, the Bolivian Minister Señor Don Ignacio Calderon Hiram Bingham, Mrs Robert E Peary, Representative William C Redfield, Mrs Walter L Fisher, Roald Amundsen, Robert E Peary, the British Ambassador, James Bryce Henry Gannett, President National Geographic Society, Madame Jusserand; Mrs Bryce, the French Ambassador, J J Jusserand, the Secretary of the Interior, Walter L Fisher, Mrs William C Redfield, the Minister from Norway Mr. H. V. Thorelli.

spores of mold to the mighty eucalyptus and sequoia trees. It deals with nearly every part of the earth, from the teeming pavements of New York and London to equatorial jungle and polar wastes.

Here, in a photograph, a solitary Moslem kneels beside his camel amid the dreary dunes of the desert, turns his face toward far away Mecca, and strikes his turbaned brow against the sands in obeisance at the hour of prayer. There, a handsome Romanian peasant girl barefoot, in gaily embroidered dress, strides through the cool waters of a mountain stream, her water pitchers swinging from a stick across her shoulder, the joy of living in her eye and step, perhaps she is in love.

Such pictures leave an unforgettable impression. As an old Chinese proverb has it, they are more eloquent than 10 000 words!

#### EXTRAORDINARY PICTORIAL RECORDS

Even more important than their esthetic appeal is the educational, scientific, and historical value of THE GEOGRAPHIC'S pictures, which contribute not only to current information but also to man's accumulated store of knowledge. For historians, ethnologists and scientists of future generations, The Society's rich album of natural color photographs—reproduced for us and posterity in The Magazine by four color photo-engraving—will constitute a priceless, not-to-be-duplicated record authentic in proportion and tint of the costumes, scenery, architecture and daily life of the civilized nations and isolated tribal communities of the present age. Already thousands of costumes have been copied from these pages.

In The Society's library is a complete index and cross index to every picture. The Magazine has ever printed. It contains nearly 200 000 cards. In another part of The Society's headquarters its priceless collection of more than 208 000 unused photographs reposes in 350 asbestos lined, fireproof cases.

Among The Society's pioneering achievements in photography—in the laboratory and in the field—are these:

1. First to make and publish natural color photographs of Arctic life. First magazine publication of aerial pictures of the North Pole and of aerial photographs of the South Pole.

2. George S. Fraser, 3d, a Trustee of The Society made the first flashlight pictures of wild animals in their natural habitats.

3. Capt. Albert W. Stevens, conducting scientific observations for The Society, took the first photograph showing laterally the curvature of the earth, and important aerial photographs of the advancing shadow of the moon on the earth's surface during an eclipse of the sun. On the National Geographic Society U. S. Army Air Corps Stratosphere Flight of 1934 he took the world's highest altitude photograph of the earth. All were published exclusively in THE GEOGRAPHIC.

4. First successful natural color photographs undersea by Charles Martin, Chief of The Society's photographic laboratory, the first extensive series of successful natural color photographs of aquarium fishes in action by Edwin L. Wisner of the photographic staff.

5. First natural color photographs from the air by Melville Bell Grosvenor, an Assistant Editor of The Magazine.

6. First to take and publish natural color photographs of the Valley of Ten Thousand Smokes and the Mount Katmai volcanic region in Alaska by Robert F. Griggs, leader of six Geographic Society Alaska expeditions.

7. First to take and publish an extensive series of natural color photographs of the United States by Clifton Adams, Franklin Price, Knott Jacob Gayer, B. Anthony Stewart, Richard Stewart and Edwin L. Wisner, all of The Society's staff.

8. W. Robert Moore of The Society's staff made the only natural color photographs of the coronation of the Emperor of Ethiopia. He took the first natural-color photographs of hill tribes of Burma and Siam and the first extensive series of natural color photographs of South America ever published.

9. The first natural color photographs in regions of the Tibetan borderlands by Joseph F. Rock, leader of Society expeditions.

10. The first progressive series of photographs from the Mediterranean to the Yellow Sea by Maynard Owen Williams, Chief of the Foreign Editorial Staff.

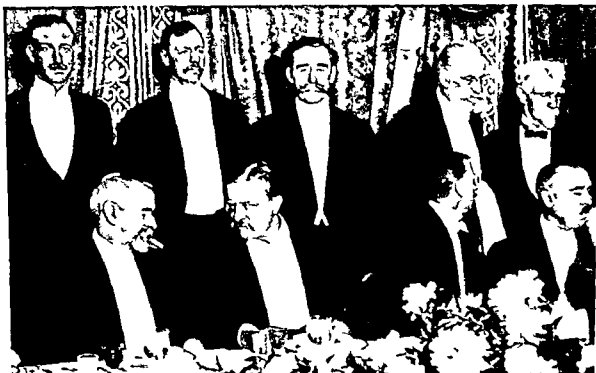
11. The first comprehensive color photographs of European countries by Gervais Courtellemont, Hans Hildenbrand, Luigi Pellerano and Wilhelm Tobien.

The NATIONAL GEOGRAPHIC is the only magazine that systematically photographs in natural colors. It reproduces more full color photographs than any other publication.

One issue may carry the reader up the Andes. Another may show him the splendors of the Taj Mahal or picture strange exotic peoples in the fastnesses of Tibet. Opening a volume at random, he finds 800 flags of the world reproduced in color. In another are all the breeds of dogs.

#### OPENS MILLIONS OF EYES TO NATURE'S WONDERS

In transporting its members in fancy to far places THE GEOGRAPHIC has not lost sight of the wonderland of Nature which lies at every man's door. Through its



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#### A GEOGRAPHIC LUNCHEON IN HONOR OF COLONEL THEODORE ROOSEVELT

On his return from his explorations in Africa in 1910 and again from South America in 1914 Colonel Roosevelt gave to the National Geographic Society in Washington his first public lecture announcing his discoveries.

From left to right seated—J. J. Jusserand the French Ambassador, Colonel Theodore Roosevelt, Gilbert Grosvenor, Director and Editor National Geographic Society, Juan de Riano the Spanish Ambassador. Standing—Frederick V. Coville, George Shiras 3d, Admiral Robert E. Peary, General A. W. Greely and General John M. Wilson, members of the Board of Managers of the National Geographic Society.

efforts millions of eyes have been opened to the beauties of the forests and national parks, the birds, wild flowers, and animals, the wonders of plant and insect life. Notable is the current series of paintings by Maj. Allan Brooks of the birds of North America, with accompanying human interest biographies of these feathered neighbors by persons of wide reputation in this field.

From a page in one of the earlier volumes peers a surprised wildcat bathed in the dazzling brightness of a photographic flash. His debut in *THE GEOGRAPHIC* marked the beginning of the publication of the valuable series of photographs made by Mr. Shiras, inventor of methods of taking pictures of wild animals at night by flashlight, and for 15 years the sole photographer to make such pictures. As the first successful photographer of wild life by day or night, he did much to popularize the sporting and absorbing game of hunting birds and animals with a camera, and making them take their own photographs.

In another early issue appear the awe-inspiring monsters of our back yards, mere grasshoppers and other small insects, but fearsome, strangely made, absorbing creatures as pictured in greatly enlarged photographs taken by Dr. David Fairchild, another veteran member of The Society's Board.

#### HISTORIC NARRATIVES OF AVIATION AND EXPLORATION

Beginning with Alexander Graham Bell's historic papers on man lifting kites and aerial locomotion, *THE GEOGRAPHIC* has published more about aviation than any other magazine of general circulation.

In its pages are recorded in word and picture the personal narratives of explorers and trail blazers by land, sea, and air, from Peary and Amundsen to Byrd and Lindbergh. Among these gripping first-hand stories are those of Captain Stevens of the National Geographic Society U. S. Army Air Corps Stratosphere Balloon Expeditions, Dr. Hugo Eckener of the *Graf*

*Zeppelin*, Stefansson, Shackleton, de Pinedo, Nobile, Dargue, Auguste Piccard, Kingsford Smith, Ross Smith, Macready, Mittelholzer, Alan Cobham, Amelia Earhart, Anne Morrow Lindbergh (see p 6)

In the files of THE GEOGRAPHIC you will find General Goethals' account of the building of the Panama Canal

Here, too, are the travel observations of statesmen—Taft, Theodore Roosevelt, Bryce, Coolidge, Curzon, Jusserand, Root, Grew, Bingham, Castle, of men of letters—Joseph Conrad, Donn Byrne, Scott O'Connor, A J Villiers, the work of famed naturalists and scientists—Alexander Graham Bell, S P Langley, Dittmars, Beebe, Chapman, Coville, Morley, Shiras, Nelson, Griggs, Jaggar, Rock, Andrews, Abbot, Greely, Allen, Murphy, Mann, Wetmore

Invaluable contributions to the understanding of our Nation both by its citizens and by members abroad are THE GEOGRAPHIC'S important series of articles on the States and chief cities of the United States. Beginning with John Oliver La Gorce's article on Pennsylvania, the series of State stories now has covered more than half of the 48 Commonwealths of the Union, and represents the most comprehensive task of its kind ever undertaken

There are many articles on islands, some remote and seldom visited. Among them are Falcon Island, a 'hide and seek' spot of land in Polynesia which literally has its ups and downs, Bogoslof, another volcanic jack-in-the-box, Lonely Easter Island, with its mystifying statues reared by a vanished people, Juan Fernandez, the Robinson Crusoe island, Yap and the other Pacific islands under Japanese mandate. There are also articles on islands nearer home, 'The Isle of Capri,' about which so much has been sung the Channel Islands, Malta, the Orkneys, Cyprus, Guale, etc

With progress in archeological exploration The Magazine has kept step year by year

From Nebuchadnezzar's Palace at Babylon where the Hand wrote on the Wall, to the tomb of King Tutankhamen to the ancient Harem of Xerxes at Persepolis to Maya temples in Mexico, Inca ruins in Peru and pueblos in our own Southwest dated by the tree ring, in their charred and weathered beams, the continuous story of modern science's steady uncovering of mysterious lost civilizations is carefully recorded in THE GEOGRAPHIC

A clear, up-to-date picture of this changing world is brought to members from time to time by special large map supplements in color, made by The Society's own cartographers with infinite care and ingenious methods. No expense in time, money, or effort is spared to make these maps equivalent to many volumes of reference information. A million copies of each are printed

Maps are the shorthand of geography, and special processes make it possible to concentrate into those issued by The Society a maximum of material without crowding and with a clarity of lettering that has been the envy of cartographers in other parts of the world. By a specially devised technique place names are photographed onto the map instead of being printed. Paper and inks are carefully selected to insure the perfection and durability of the finished product

Sometimes the big color presses are stopped in full stride to make a change in the name or the status of an area in the light of last minute developments on the world stage. Many a place which is of peculiar and particular interest but too small to be shown on most maps will be found on those of The Society

Since March, 1915, this cartographic work has been directed by Albert H. Bumstead. It was Mr. Bumstead who invented the sun-compass which Admiral Byrd used on his polar flights. 'Without it,' Byrd declared, "we could not have reached the Pole"

Constantly The Society and The Magazine are declaring dividends to their million member-owners in a finer, fatter publication, in worth while map and pictorial supplements, in the fruits of far-seeing, long-visioned exploration in the stratosphere high above the earth, in the lower depths of the sea where no man before has gone alive, in Antarctica, "the last continent of adventure"

#### THE GEOGRAPHIC'S REMARKABLE SUCCESS STORY

When all this is considered, it is easy to understand why so few members resign from The Society, why membership fell off by only a small percentage during the late depression, and why the roster of members is rapidly mounting again with the total well beyond the million mark

Instead of the tiny, one room office shared with another scientific organization

in April, 1899, The Society's executive staff now is housed in a handsome group of air-conditioned buildings, one of the finest in Washington, and owned by The Society, to which visiting members from all over the world are constantly being welcomed. In stead of a single paid employee The Society has some 700. Instead of debts it has a substantial reserve fund for exploration and research, built up by careful business management out of the small annual dues of members, and a valuable asset in its renowned Magazine.

The Editor is now in his 37th year of service as such. He can well remember his first visit, on April 1, 1899, to The Society's headquarters, which was half of a small rented room on the fifth floor of the Corcoran Building in Washington.

The little space of which he, age 23, was to assume charge was littered with old magazines, newspapers, and a few books of magazines, which constituted the only visible property of The Society. The treasury was empty, and had incurred a debt of nearly \$2,000 by the expenditure of its life membership fees to keep alive.

The National Geographic Society had been organized in 1888. At that time Grover Cleveland was nearing the end of his first administration. Life in Washington moved at a pace attuned to horses' hoofs and carriage wheels instead of speeding motor cars and airplanes. Movies and radio were not yet born.

Among a small group of public spirited scientists an idea stirred. To other thoughtful, serious minded men in January, 1888, went the following note, brief, unpretentious but laden with portent, for it was the first step in formation of a society which one day would extend its membership and its scientific influence around the world.

DEAR SIR You are invited to be present at a meeting to be held in the Assembly Hall of the Cosmos Club, Friday evening January 13, at 8 o'clock for the purpose of considering the advisability of organizing a society for the increase and diffusion of geographic knowledge.

Very respectfully yours,

GARDINER G HUBBARD  
A W GREELY  
J R BARTLETT  
HENRY MITCHELL  
HENRY GANNETT  
A H THOMPSON

Of those six men, one, General Greely, is still alive today (in 1935) in his nineties, and still an honored member of The Society's distinguished Board of Trustees.

The invitation struck a responsive chord, and 33 men met at the Cosmos Club. The meeting was called to order by Professor Thompson, who stated its objects and nominated Capt C E Dutton as chairman. In the subsequent discussion of the formation of a geographic society, Messrs Hubbard, Bartlett, Thompson, Mitchell, Kennan, Gannett, Merriam, and Gore took part.

C Hart Merriam and J Howard Gore are valued members of The Society's Board of Trustees to this day.

The following resolution, introduced by Professor Thompson, was adopted:

#### *Resolved*

1. As the sense of this meeting that it is both advisable and practicable to organize at the present time a geographic society in Washington.

2. That this society should be organized on as broad and liberal a basis in regard to qualifications for membership as is consistent with its own well being and the dignity of the science it represents.

3. That a committee of nine be appointed by the chairman to prepare a draft of a constitution and plan of organization to be presented at an adjourned meeting to be held in this hall on Friday evening January 20 1888.

A committee for formulating a plan of organization was appointed, consisting of Messrs Hubbard, Greely, Bartlett, Mitchell, Kennan, Thompson, Gore, Tittmann, and Merriam.

In this list appears the name of still another of The Society's present Trustees, O H Tittmann.

A subsequent meeting was held on January 20, at which it was decided to incorporate The Society, and the same committee was continued to carry out that purpose. On January 27 The Society was incorporated, the following men signing the certificate of incorporation:

GARDINER G HUBBARD  
C E DUTTON  
O H TITTMANN  
J HOWARD GORE  
C HART MERRIAM  
J R BARTLETT  
ROGERS BIRNIE JR  
GILBERT THOMPSON

J W POWELL  
HENRY GANNETT  
A H THOMPSON  
A W GREELY  
HENRY MITCHELL  
GEORGE KENNAN  
MARCUS BAKER

On the same day the first meeting of The Society was held in the Assembly Hall of the Cosmos Club, when it was organized.

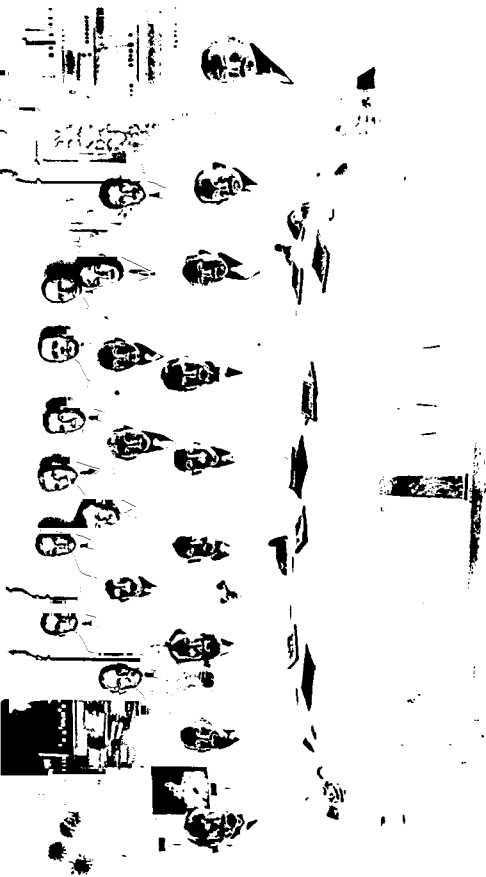




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AT THE MOMENT OF THE UNVEILING OF THE PEARY MEMORIAL IN ARLINGTON NATIONAL CEMETERY, ON APRIL 6, 1922

On the platform from right to left: The Secretary of State and Mrs. Hughes; William Howard Taft, the Chief Justice of the United States who was President of the United States when the North Pole was discovered; and upon whose recommendation to Congress the explorer was created a Rear Admiral; the Ambassador of France and Mme. Jusserand; Dr. Gilbert Grosvenor, President of the National Geographic Society; the President of the United States and Mrs. Harding; Mrs. Robert E. Peary; Dr. F. W. Nelson; Captain Robert A. Bartlett; Edwin Denby, Secretary of the Navy; and the Reverend Dr. Charles Wood, lastly consecrated by the flag (at the right) is Colonel Theodore Roosevelt, Assistant Secretary of the Navy.



Photograph by Charles Mart n

THE BOARD OF TRUSTEES OF THE NATIONAL GEOGRAPHIC SOCIETY AT ITS MEETING DECEMBER 14, 1921, IN HUBBARD MEMORIAL HALL

Front row reading from left to right James Howard Gore O H Tuttmann Alexander Graham Bell William Howard Taft Gilbert Grosvenor, Henry White John Joy Edson C M Chester O P Austin Second row David Fairchild George Otis Smith George Shiras 3d Rudolph Kauffmann Charles J Bell Frederick V Coville George R Putnam Top row E Lester Jones Stephen T Mather T L Macdonald Grant Squires John Oliver La Gorce George W Hutchison (Absent because of illness A W Greely C Hart Merriam S N D North)

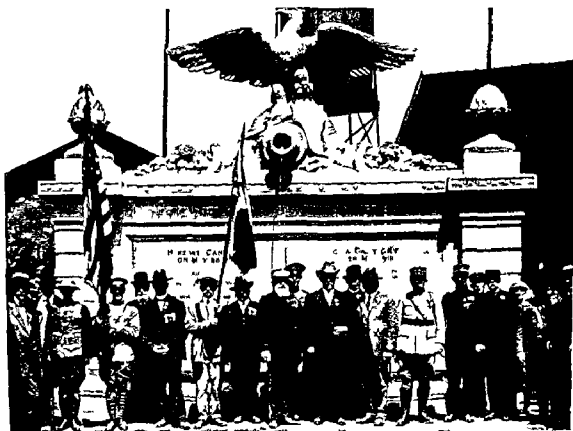


Photo graph by Maynard Owen Williams

## DEDICATION OF THE SOCIETY'S MEMORIAL TO THE AMERICAN FORCES AT CANTIGNY

This fountain was the central feature of the water supply system which The Society presented to Cantigny in commemoration of the First Victory of the American Forces in France. At the extreme left is Col. Francis E. Drake of the American Legion. Standing between M. Emery, Prefect of the Somme, and the Mayor of Cantigny is Dr. J. Howard Gore, Chairman of the Memorial Committee, who represented the Board of Trustees and members of the National Geographic Society at the dedication on July 14, 1923.

by the election of the following officers and the adoption of by laws

*President*  
GARDINER G. HUBBARD

*Vice Presidents*  
HERBERT G. OGDEN  
J. R. BARTLETT  
A. W. GREELY  
C. HART MERRIAM

*Treasurer*  
CHARLES J. BELL

*Recording Secretary*  
HENRY GANNETT

*Corresponding Secretary*  
GEORGE KENNAN

*Managers*

CLEVELAND ABBE	W. D. JOHNSON
MARCUS BAKER	HENRY MITCHELL
ROGERS BIRNIE, JR.	W. B. POWELL
G. BROWN COOKE	JAMES C. WELLING

The number of members who joined The Society at its organization was 165.

I am not a scientific man, nor can I lay claim to any special knowledge that would

entitle me to be called a 'geographer,' said President Hubbard in his first introductory address. I owe the honor of my election as President of the National Geographic Society simply to the fact that I am one of those who desire to further the prosecution of geographic research. I possess only the same general interest in the subject of geography that should be felt by every educated man.

By my election you notify the public that the membership of our Society will not be confined to professional geographers, but will include that large number who, like myself, desire to promote special researches by others and to diffuse the knowledge so gained among men so that we may all know more of the world upon which we live.

By the establishment of this Society we hope to bring together (1) the scattered workers of our country and (2) the persons who desire to promote their researches. In union there is strength, and through the

medium of a national organization, we may hope to promote geographic research in a manner that could not be accomplished by scattered individuals, or by local societies, we may also hope—through the same agency—to diffuse the results of geographic research over a wider area than would otherwise be possible.”

#### A MODEST MAGAZINE MAKES ITS DEBUT

A few months later, early in 1889, appeared a slim little scientific brochure—Volume I, No 1, of the NATIONAL GEOGRAPHIC MAGAZINE. Between its paper covers of a terra cotta shade were such articles as these: ‘Geographic Methods in Geologic Investigation,’ ‘The Classification of Geographic Forms by Genesis.’ It was earnest serious, studious thorough, but it bore little relation to the brilliantly illustrated periodical that it would some day be. It did not even undertake to come out at more than ‘irregular intervals.’ On the first two pages was this announcement:

The National Geographic Society has been organized to increase and diffuse geographic knowledge and the publication of a Magazine has been determined upon as one means of accomplishing these purposes.

It will contain memoirs essays notes correspondence reviews etc relating to geographic matters. As it is not intended to be simply the organ of The Society its pages will be open to all persons interested in geography in the hope that it may become a channel of intercommunication stimulate geographic investigation and prove an acceptable medium for the publication of results.

The Magazine is to be edited by The Society. At present it will be issued at irregular intervals but as the sources of information are increased the numbers will appear periodically.

The National Capital seems to be the natural and appropriate place for an association of this character and the aim of the founders has been therefore to form a National rather than a local society.

But there is no limitation to the number of members and it will welcome both leaders and followers in geographic science in order to better accomplish the objects of its organization.

October 1888

After several years of irregular publication the Board decided to issue The Magazine every month beginning January 1 1896 and to make efforts to increase the circulation by placing it on the newsstands. In December 1897 Gardiner Greene Hubbard died and his distinguished son in law Alexander Graham Bell inventor of the telephone accepted the presidency in January 1898.

Meanwhile the plan to popularize The Magazine and increase the subscriptions

had failed. By the end of the year The Society was badly in debt, and the Board much discouraged.

But President Bell was not disheartened. He maintained that geography was a most interesting subject and that the public would support a geographic magazine, provided the matter was presented entertainingly. The first step, he asserted, was to engage and pay a person to devote his entire time to the editorial work and to promote the membership. Heretofore these duties had been performed by a committee of very busy and distinguished men who gave their services without remuneration.

The second step, said Dr Bell was to discontinue efforts to obtain subscribers to a magazine. In place of subscribers an effort should be made to get *members* of a society who would believe in the project and help it.

At that time The Society had two classes of members: (a) active or local members who lived in the District of Columbia paid \$5, and attended the lectures and received The Magazine, and (b) non resident or corresponding members who paid \$2, and got The Magazine only. Dr Bell advised that the distinction between resident and non resident members be abolished, arguing that people disliked to be classed as non resident or corresponding members because of a prevalent feeling that non resident members had fewer privileges.

At that time, January 1899, of the 1 000 members 800 resident in Washington were paying \$5 for The Magazine and lectures and only 200 were paying \$2 and the Board members were reluctant to make the change. But they welcomed the suggestion that an assistant editor be appointed to assist in the preparation of The Magazine and in promoting the membership particularly as Dr Bell offered to pay the salary of the person selected.

#### THE INVENTOR OF THE TELEPHONE SEEKS AN EDITOR

Dr Bell realized that the desire to add to knowledge is wellnigh universal that hosts of people would like to support exploration and research as rich men have been able to do. Their pride in National Geographic Society membership is partly due to realization of this wish.

The writer has had the privilege of directing its policies since April 1899 when he was invited by Dr Bell then President of the National Geographic Society, to assume



Medal designed by Albert H. Bumstead

## TWO FAMOUS FLIGHTS CHARTED IN SOLID GOLD

On the face of the medal (left) is outlined the Lindberghs' circumnavigation of the Atlantic in 1933, during which they flew 29 000 miles over tossing seas, Greenland's ice cap, the European continent, the African coast and the teeming jungles of South America. On the reverse, above the inscription, is depicted the flight of 1931, across the northern wilds of Canada and Alaska over the Bering Sea and down the Siberian coast to Japan and China.

editorial charge of *The Magazine* and of the effort to increase membership.

To my father, Dr Edwin A. Grosvenor, professor of European history at Amherst College, author of two magnificently illustrated volumes "Constantinople," etc., and later President of the United Chapters of Phi Beta Kappa, Dr Bell wrote the following letter from Washington, on February 19, 1899:

'MY DEAR PROFESSOR GROSVENOR

"As President of the National Geographic Society I am on the lookout for some young man of ability to act as Assistant Secretary of the Society, and manage under the direction of our Editorial Committee, our monthly publication, 'THE NATIONAL GEOGRAPHIC MAGAZINE'.

"In this connection your two sons recur to my mind. I do not know whether the position contemplated would be in the nature of an advance on the positions they now occupy, or whether it would be consistent with their aims in life—and therefore write confidentially to you before approaching either of them upon the subject. If, as I understand they contemplate ultimately going into law—the opportunities for study here are unrivalled, and the duties of the position

would not be of so exacting a character as to prevent them from pursuing any studies they desire.

"The present Editor of *The Magazine*, an expert geographer, serves without remuneration, but he finds himself so overburdened with work as statistician to the Agricultural Department that he desires to resign the Editorship. He would remain, however, on the Editorial Committee and give his active assistance to his successor. We are now contemplating the advisability of placing *The Magazine* in the hands of one only salaried officer, the Assistant Secretary, making him the Managing Editor to get out *The Magazine* with the assistance of the Editorial Committee.

"I am afraid however, that our present Assistant Secretary would not be competent to conduct *The Magazine*. He is a married man, and we pay him a salary of \$1,200 a year. I have thought that perhaps for the same salary we could secure an unmarried man of superior ability by applying to the Presidents of our universities. Some bright college graduate just beginning life would probably find in this position a stepping stone to something better, and be able, while here, to pursue some postgraduate course of study while earning his livelihood.

"Under the proposed plan the members of the Editorial Committee would provide the original material for The Magazine—the Managing Editor simply applying to them for materials as needed. The chief duties of the Managing Editor would be the arrangement of the material and the reading of proof—but he must also have sufficient literary ability to be able to write himself in an emergency, and sufficient judgment to use the scissors with discrimination in quoting from our exchanges. Of course in all this he would have the assistance of the experts upon the Editorial Staff who would always be glad to be consulted. Either of your sons would I am sure have sufficient ability for the position but of course I do not know what their present prospects are or whether such an opening would prove attractive to them.

We shall make no change for some months yet and in the meantime no harm can come from consulting you upon the subject.

P S—I forward by this mail a specimen copy of The Magazine.

To my twin brother and me who were teaching in New Jersey Dr Bell wrote as follows:

MY DEAR FRIENDS Will you kindly look over the enclosed communication to your father and let me know whether either of you would consider the proposition to become Assistant Secretary of the National Geographic Society and Managing Editor of The Magazine if such a proposition should be made to you.



Photograph by Keystone Underwood

#### IN RECOGNITION OF YOUR COURAGEOUS AND SKILLFUL WORK.

Anne Morrow Lindbergh receives from President Gilbert Grosvenor the Hubbard Gold Medal, highest honor of the National Geographic Society. She is the first woman to be awarded the medal. Nine men including Colonel Lindbergh have received it for extraordinary geographic achievements since it was first struck in 1906 for Admiral Robert E. Peary. In the background is the historic flag which has been carried on numerous expeditions sent by The Society to far places of the world. Its colors are green, brown and blue representing the sea, the earth and the sky.

I have already spoken of the poverty stricken state of The Society when I first visited its cramped and littered headquarters. The Society was not so poor as it seemed, however, for its management had a revolutionary idea.

Why not popularize the science of geography and take it into the homes of the people? Why not transform The Society's Magazine from one of cold geographic fact expressed in hieroglyphic terms which the layman could not understand into a vehicle for carrying the living breathing human interest truth about this great world.



International Newsreel

**PRESIDENT COOLIDGE PRESENTS THE HUBBARD MEDAL TO  
COLONEL LINDBERGH**

The presentation of the National Geographic Society's highest award was made in the Auditorium of the National Geographic Society, 1201 New York Avenue, N. E., Washington, D. C., on May 15, 1927, in connection with the service to the Society by the President of the United States to Paris, France, for the presentation of the Hubbard Medal to Colonel Lindbergh. (The National Geographic Magazine for August, 1927.)

of ours to the people? Would not that be the greatest agency of all for the diffusion of geographical knowledge?

ing to help and give liberally of time and suggestion. To evolve a magazine that would not lower the dignity of The Society and that would win popular support was the task that was entrusted to me.

Dr. Bell personally for five years contributed my salary as Assistant Editor and

I did, making a total gift of \$6,900 to The Society for this purpose.

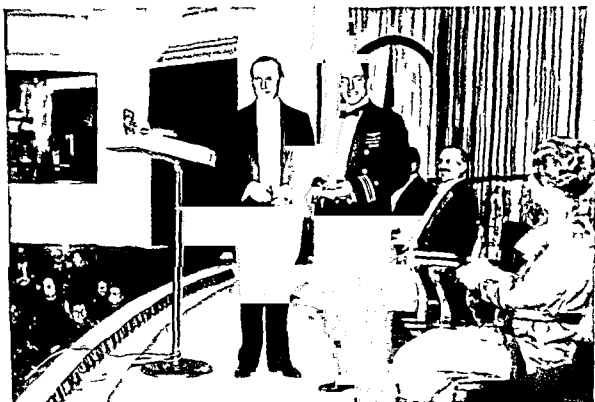
The Society was so poor that it could employ no clerical assistance, and for a time I was even obliged to address The Magazine envelopes myself. The names of the members were then printed on long slips, and it was the practice to cut these slips up with a pair of scissors and then paste them on the envelope. After addressing one edition of 900 copies in this way, my first investment in office furniture was the purchase of an addressing machine for \$20.

Magazine men who were consulted said it was impossible to develop a circulation for a geographic magazine, because the subject of geography was too technical. And no doubt this was true, for we should remember that at that time geography was to the layman an unknown quantity, and meant boundaries, moraines, erosion, glaciers, wind belts, etc.

From the very inception of our revolutionary plan a new era in

geographic education dawned. The National Geographic Society found the whole world ready to catch the pages of its Magazine. Those pages brought them. From that day to this there has been growth, growth, growth.

Near the end of my first month with The Society, I received under date of April 29, 1899, the following letter from Dr. Bell:



International Newsreel

**PRESIDENT COOLIDGE PRESENTS COMMANDER BYRD WITH THE HUBBARD GOLD MEDAL**

This medal was awarded to Commander Richard Evelyn Byrd first man to fly to the North Pole before a distinguished audience of members and friends of the National Geographic Society on June 23, 1926 (see Commander Byrd Receives the Hubbard Gold Medal in the NATIONAL GEOGRAPHIC MAGAZINE for September 1926)

'DEAR MR GROSVENOR

"At the request of the Editorial Committee I wrote to you on March 20, 1899, offering you the position of Assistant Editor of the NATIONAL GEOGRAPHIC MAGAZINE for three months, beginning April 1st stating that a more permanent engagement would be made at the end of that time if the appointment seemed satisfactory to the Committee and to you I am happy to inform you that the Editorial Committee have been so much pleased with you and appreciate so highly the benefits already derived from your assistance that they consider it unnecessary to wait for the expiration of the three months before making a more permanent engagement with you Mr Hyde on behalf of the Editorial Committee brought the subject before the full Board of Managers at the meeting today and you may be pleased to know that the suggestion of the Editorial Committee met with the unanimous endorsement of the Board and I now have great pleasure in confirming your appointment

as Assistant Editor of The Magazine, for one year, instead of three months, dating from the first of April 1899, your salary to be one hundred dollars per month

'I trust that you will accept and that you have as high an opinion of the members of the Board as they have of you

"I have written to Mr Hyde suggesting that your name should appear in the June issue of The Magazine as Assistant Editor under his

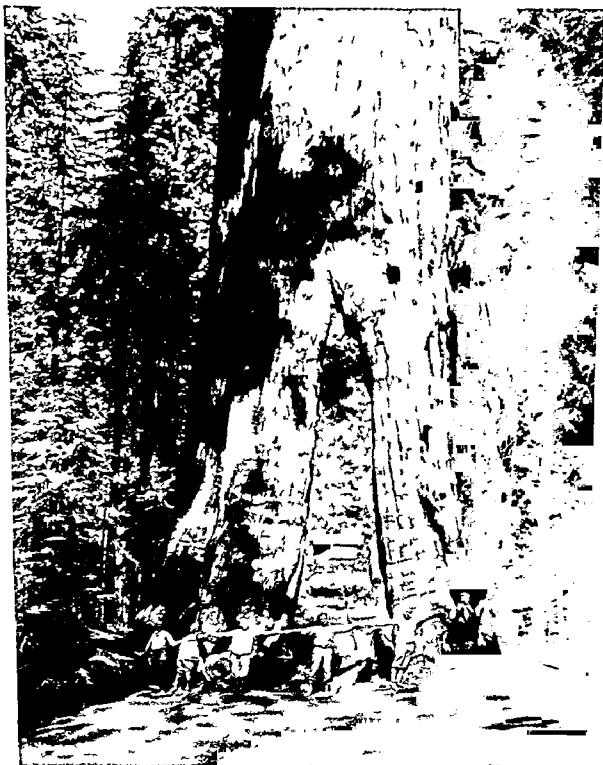
"Congratulating you upon the good beginning you have made, and wishing you every success in the future I am

Yours truly,  
(Signed) ALEXANDER GRAHAM BELL,  
President, National Geographic Society

On the next day I received from Dr Bell's private secretary a note which said

'On leaving Mr Bell asked me to say to you that the Editorial Committee passed a resolution giving you great scope in the matter of securing Corresponding Members and pushing The Magazine—therefore go ahead and do what you think best in that





Photograph by Dr. Gilbert Grosvenor

GENERAL SHERMAN, KING OF ALL FREEDOM, RULES SEQUOIA NATIONAL PARK

It takes 20 men with arms outstretched to encircle this giant tree. Dr. A. E. Douglass estimated



Photograph from Willis T. Lee

#### THE ARMORY AND SHINAV'S WAR CLUB IN CARLSBAD CAVERN, NEW MEXICO

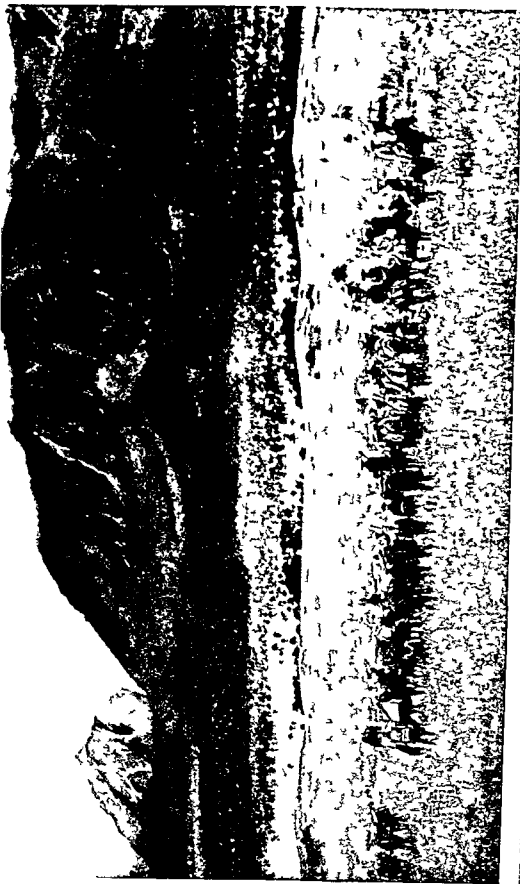
This vast subterranean chamber is one of the most spectacular underground wonders in America. Long known locally, it was first disclosed to the public through the pages of the NATIONAL GEOGRAPHIC MAGAZINE (A Visit to Carlsbad Cavern, January 1924, and New Discoveries in Carlsbad Cavern, September 1925). The Society sent an expedition to explore the cavern and the mountains near it. As a result of these explorations, which discovered the vast extent and spectacular nature of the cave, President Coolidge set it aside as a national monument. Dr. Willis T. Lee, leader of the expedition, is seated at the right in the picture.



THE FIRST PHOTOGRAPH EVER MADE SHOWING LATERALLY THE CURVATURE OF THE EARTH

Photograph by Capt A W Stevens

This unusually interesting photograph of the Andes including Mount Aconcagua (identified by a white line below the base) at a distance of 287 miles was made from an airplane at an elevation of 21 000 feet by Captain Stevens in the course of his camera survey of the Andean Chain for the National Geographic Society in 1930. The mountain range which shows clearly in the photograph could not be seen by the photographer at the time he made this picture (see Flying the Hump of the Andes by Captain Albert W Stevens in the NATIONAL GEOGRAPHIC MAGAZINE for May 1931). Captain Stevens used a lens of 90-inch focus and an infra red screen which admits to the sensitive photographic plate light that is invisible to the eye. The length of the exposure was 1/20th of a second. Almost exactly in the center of the range Mount Tupungato is distinguished. In the foreground is Villa Mercedes Argentina



THE CARAVAN OF DR. JOSEPH F. ROCK, ESCORTED BY NATIVE SOLDIERS, PAUSES ON THE PLAIN OF GABA ON HIS RETURN FROM THE KONKALING PEAKS OF WILD WESTERN CHINA.

Photograph by Dr. Joseph F. Rock

Th's explorer has led a series of expeditions of the National Geographic Society to little known regions of China and Tibet. From Burma he brought back seeds of the chaulmoogra tree, whose fruit yields an oil which has proved of value in the treatment of leprosy. His splendid black and white photographs and natural color pictures of and articles on the Yangtze Gorge, the Devil Dancers and Butter Gods of Choni, and the Kung Sungmas of Tibet have appeared from time to time in the NATIONAL GEOGRAPHIC MAGAZINE.

direction, and if any question arises regarding expense in getting out circulars etc remember you have Mr Bell behind you The point is to materially increase the corresponding membership "

I quote this message from Dr Bell offering financial assistance to The Society, because it was so characteristic of his generous nature He was ready to donate thousands of dollars to help But I begged him not to give a single dollar beyond the \$100 donated monthly to The Society for my salary

My theory was that if The Society's Magazine was to succeed, we must find out what kind of geographic magazine the public would buy, and that we could not ascertain this if we were to lean on a generous benefactor to pay deficits Dr Bell assented with a smile, and later told me that several years previously, he and Mr Hubbard had expended \$80 000 in a futile effort to establish a popular scientific weekly periodical After two years of printing they discontinued it and sold the name Science which they had bought for \$5 000 to Dr J McKean Cattell for \$25

I have the receipt for the \$5 000 payment Dr Bell gave it to me as a souvenir

That those early years were times of uphill struggle hard work and vexing problems is suggested by other letters

For example, in October 'the imperative necessity of providing the Secretary's office with further clerical assistance' was urged upon the board by the Editor in Chief, Mr John Hyde who added

While The Magazine itself has not suffered in the form in which it is presented to the members of The Society and to the public its preparation has involved upon Mr Grosvenor a strain that nothing but the most intelligent enthusiasm would have enabled him to bear His untiring energy and single minded devotion to the work of The Society in general and of The Magazine in particular are worthy of the highest praise

Perhaps I ought to add that I make these strong representations as the chairman of the Committees on Admissions and Publications as a frequent visitor at The Society's rooms and without Mr Grosvenor's knowledge that gentleman being ready to work himself to death if need be in the interests of The Society and in the carrying out of the orders of the Board and of its various Committees

Every dollar was carefully husbanded and stretched like a stratosphere balloon We had one inflexible rule there must be no deficit at the end of the year, and no borrowing

Now The Magazine pays handsome honorariums for all material used, but in those days articles were solicited gratis

We had some amusing experiences In the expectation of interesting the schools, we accepted with great enthusiasm the offer of the professor of geography in one of our oldest universities to write and donate to The Magazine a series of articles for teachers The first paper soon arrived I found it exceedingly hard to digest, and took it to Dr Bell He confessed that much of it was beyond him but that as it was sponsored by America's most widely acclaimed geography teacher, he recommended publication

Soon letters of protest from educators deluged us among them a letter from G Stanley Hall President of Clarke University, one of the most ardent supporters of our project, who swore that if that article was to be the kind of geography we published we had better discontinue our efforts From that day no sentence has found space in The Magazine that could not be readily understood

#### MEMBERS OF A SOCIETY NOT SUBSCRIBERS SOUGHT

After Alexander Graham Bell had sailed for Europe in June 1900 several members of the Board who had little confidence in Mr Bell's plans began negotiations with a New York publisher with a view to turning The Magazine over to them To explain Mr Bell's plans and to discourage the negotiations I wrote Miss Ida M Tarbell a good friend the following letter on July 25 1900 which I quote in part as it answers the question frequently put to us why members instead of subscribers are sought

#### DEAR MISS TARRELL

As you are aware during the past 16 months Mr Bell and others have been pushing The Magazine and planning to make it cover a field in which there is no competitor to make it The Geographic Magazine of the country reliable and widely read But The Magazine is to be the means to another end which Mr Bell has heretofore and does now I believe consider the most important By it we

are to build up a great national society with thousands of members. What we want is not subscribers to a magazine but members of a society.

A combination of membership and magazine will be a stronger attraction than a mere subscription to a magazine. Where many persons would not subscribe for the magazine alone, they will become members because they get two things: the distinction of membership in a well known society and also a good monthly journal. Vice versa they would not become members except for the additional privilege of a magazine.

Neither The Magazine nor The Society can stand alone, for each helps the other.

In the fall the Hubbard and Bell families are going to put up a memorial building to Mr. Hubbard. It is to be offered to The Society exclusively for its headquarters. It is another step in this same direction to make The Society national and not a Washington scientific body. It has to become more popular, and hence The Magazine also must become less technical and appeal to teachers, scholars, thinking men, and not to specialists alone.

The Magazine exists not for itself like your *Popular Science Monthly*, but is the means, the tool by which we plan to build a society having thousands and thousands of members and as few subscribers as possible, or if we do get subscribers to make them members as soon as possible. I hope my idea is clear: a great society and a great magazine is what we want and not a great magazine and a small society.

The more I think about it the more convinced I am that if the plans offered you as far as I can gather them from Mr. X are pursued the results will be a technical and local society and a good magazine but not a great society and a great magazine. The barring from The Magazine of all reference to The Society which is contemplated is destructive. The Magazine is the journal of The Society and publishes its proceedings not often to be sure but it allows 15 to 20 pages a year for the purpose. If The Magazine does not have any reference to The Society members will drop off and there you are again getting subscribers and not members. This is just what Mr. Bell and the majority do not want though certain members with

whom you have been thus far corresponding want it, and are working for it. They are in the minority, however, or will be. It happens that they are in the field now. I write frankly, you see, for I want you to know the object of all. A great national society first and all the time. The Magazine is to bring this about and not thwart it. For the present, please consider this letter confidential.

#### DR. BELL HAILS UNPRECEDENTED GROWTH

It should be observed parenthetically that magazine men generally advised against any mention of the National Geographic Society in The Magazine as they thought the public would not be interested in The Society, that mention of The Society would frighten away readers and subscribers. The original conception of The Society and The Magazine prevailed, however, and by 1912 Dr. Bell was able to address The Society in these words:

There has never been in the history of the world a scientific society that has increased in influence and power as the National Geographic Society.

In the year 1888 he continued: The Society was organized under a national charter to promote the increase and diffusion of geographic knowledge. Just think what that means! *To promote the study of the world upon which we live.* A truly great object for a little feeble organization to undertake. At that time we had only about 200 members.

The Society had no endowment, nothing coming to it but the membership fees. No millionaire has since come forward to help us out, and yet today The Society has a great endowment raised by its own efforts—a surplus to be devoted to the promotion of geographic science. We never had to take off our hats to any multimillionaire for having endowed The Society with a million dollars; we have done it ourselves.

When I look back upon our early days what a different condition of things prevailed. We had only about a thousand members and The Society was living from hand to mouth. Like many other scientific societies we constituted a strictly technical organization.

We supported the NATIONAL GEOGRAPHIC MAGAZINE at that time a valuable

\* See NATIONAL GEOGRAPHIC MAGAZINE, March 1912, pp. 272-276.



HEADQUARTERS OF ONE OF THE SOCIETY'S SEVEN MOUNT KATMAI EXPEDITIONS, IN THE VALLEY OF TEN THOUSAND SMOKES

This is Baked Mountain Camp with Mount Martin in the background. Before the eruption this was a green valley. Many travelers have camped beside a clump of bushes that formerly stood near the millle of this picture, but at an elevation much lower than the present surface for the valley was here filled many feet deep by the flow of incandescent sand.



THE MONUMENT, SET APART AS THE Chaco Canyon National Monument by President Theodore Roosevelt, are the oldest definitely dated pueblo remains in the American Southwest. The colossal communal dwelling was under construction 919 A. D. and the settlement had reached its heyday in 1067. The Pueblo Bonito ring calendar which dated more than 40 other major pueblo dwellings (see "Everyday Life in Pueblo Bonito," by Neil M. Judd, in the NATIONAL GEOGRAPHIC MAGAZINE for September, 1925, and "The Secret of the Southwest Solved by Talkative Tree Rings," by Andrew Ellicott Douglass, December, 1929).



technical journal that every one put upon his library shelf and few people read. It was valuable, it was important, but it did not contribute anything to the financial support of The Society.

In spite of the fact that the members of the Board of Managers and all the officers of The Society including the Editor of The Magazine served without pay, and in spite of the fact that our lecturers as a rule cost us nothing excepting an occasional honorarium to cover traveling expenses, our income being derived exclusively from membership fees was hardly sufficient to pay the printer's bill for The Magazine, the rent of our lecture hall, and the ordinary running expenses of The Society. Deficits were by no means unknown.

We had no permanent home. Half an office room constituted our headquarters and in shifting from one building to another as happened more than once a feeling of unpermanency ensued and valuable material was in danger of loss.

Then the use of the Hubbard Memorial Building was offered to us in memory of our first president—Gardiner Greene Hubbard—and for the first time we possessed a permanent habitation that in its beauty spoke of the position to which we aspired. But it threatened to be a white elephant for we did not even have the means to provide for its lighting or to take proper care of it.

It became a matter of vital necessity for The Society to increase its membership. Necessity spurred the Board of Managers into activity and they adopted a new policy unique so far as I know in the history of science. I do not know of any other scientific society that has ever adopted it and I do not know of any other society that has succeeded as the National Geographic Society has done. Now how was this accomplished?

First of all instead of limiting our membership to strict geographers we threw open the doors of membership to all who desired to promote the increase and diffusion of geographic knowledge. We had a membership of one thousand in the District of Columbia, we had ninety millions of people outside the District of Columbia to whom we could appeal for an increase in our membership, but all we had to reach these outside members was our Magazine. Our Washington members enjoyed the course of

lectures, but the outside members would have nothing but a magazine to hold them to The Society. The question was: How could we hope to interest thousands and thousands of people in a strictly technical geographic magazine?

It was obviously necessary to change the character of The Magazine and to adapt it to interest a larger circle of non-technical members. We adopted this policy with an aim to making The Magazine support The Society. We did not mean to lower the scientific standard of The Magazine and make it simply popular, but we wanted to add certain features that would be of interest to everybody.

But in starting out to make a magazine that would support The Society instead of The Society being burdened with The Magazine a man was of the first necessity if we did not get the right man the whole plan would be a failure and I can well remember how our Board of Managers discussed this proposed plan and the difficulty of getting a man and how the idea was laughed at that we should ever reach a membership of 10,000. Why it was ridiculous. Geography, the driest subject of all in our schools, how could you expect a membership of 10,000 in the United States alone!

As I said in the beginning we found it necessary to get the proper man but fortunately we found him. A young man who had made a very brilliant record at Amherst College was engaged as Assistant Editor of The Magazine to stir up these new ideas and to put new life into the scientific journal. But The Society did not have the money to pay his salary that had to be raised by voluntary contributions from interested members. And so Mr. Gilbert H. Grosvenor commenced his work in 1899. He speedily captured The Society—and incidentally he captured one of my daughters.

Mr. Grosvenor in 1900 became Editor and in 1903 Director of the work of The Society. We have been very fortunate in securing his services and with the intelligent action of an unusually fine Board of Managers and the cordial support of the members of The Society the success of The Society has been secured. We have increased to 107,000 members and we are still on the upgrade. There is no reason to suppose that we are going to stop growing.

"Our Magazine has become the greatest educational journal of the world. It goes to thousands of schools. There is no reason why the circulation should not increase, and there is no reason why the National Geographic Society should not be placed in possession of an endowment fund for geographic research, of its own making, many times that which it now possesses."

#### THE GUIDING PRINCIPLES

It might be well to repeat here some of the principles which were gradually evolved and followed in the development of The Magazine.

"1 The first principle is absolute accuracy. Nothing must be printed which is not strictly according to fact. The Magazine can point to many years in which not a single article has appeared which was not absolutely accurate.

"2 Abundance of beautiful, instructive, and artistic illustrations.

"3 Everything printed in The Magazine must have permanent value, and be so planned that each Magazine will be as valuable and pertinent one year or five or ten years after publication as it is on the day of publication. The result of this principle is that tens of thousands of back numbers of The Magazine are continually used in school rooms.

"4 All personalities and notes of a trivial character are avoided.

"5 Nothing of a partisan or controversial character is printed.

"6 Only what is of a kindly nature is printed about any country or people, every thing unpleasant or unduly critical being avoided.

"7 The content of each number is planned with a view of being timely. When ever any part of the world becomes prominent in public interest, by reason of war, earthquake, volcanic eruption etc., the members of the National Geographic Society have come to know that in the next issue of their Magazine they will obtain the latest geographic, historical, and economic information about that region, presented in an interesting and absolutely non-partisan manner, and accompanied by photographs which in number and excellence can be equalled by no other publication."

In the very first volume of THE GEOGRAPHIC, in 1889, appeared an article by a 33 year-old naval engineer, R. E. Peary, who was destined to carry the flag of his country to that desolate waste of shifting ice and water at the top of the world which men call the North Pole. But the scene of the exploration trip which Peary described in that early GEOGRAPHIC was almost as far away from the Poles as it is possible to get. Through tropic jungles he was making his way then. "Across Nicaragua with Transit and Machete" was the title of his story.

#### PEARY THE INDOMITABLE

Again and again in these pages the dauntless Peary reappears. When many persons were shaking their heads and asserting that mortal man could never reach the Pole, Peary said in an address to the National Geographic Society on November 29, 1902:

"It may seem to indicate over confidence to state boldly that the Pole can be reached, and yet it is a fact, even though the struggle has been going on unsuccessfully for years and years. Each time we have come a little nearer, each time we have learned a little more, and I say to you here tonight that it is not an impossibility, that it can be done, and that it is no more difficult than many of the great projects that we see being pushed to completion every day, and which

placable war upon the pitiless forces of the Arctic and he planned his campaigns like a Napoleon. Lightly loaded sledges, swift dogs, hardy Eskimos, a far north base, living off the land—these were elements in his plans.

On December 15, 1906, at a meeting of the National Geographic Society, its Hubbard Medal was presented to Peary by the President of the United States, Theodore Roosevelt, in honor of his attainment of "Farthest North" at 87° 06'.

A year later, at another meeting of The Society the Hubbard Medal was presented by the Vice President of the United States, Charles W. Fairbanks, to Captain Roald Amundsen of Norway for his achievement of the Northwest Passage in a vessel and the definite location of the magnetic North Pole.

\* See NATIONAL GEOGRAPHIC MAGAZINE March 1915 pp. 318-320.

It is significant that both of these awards came *before* these heroic explorers had achieved the goals of their lives—the North Pole for Peary, the South Pole for Amundsen. Later The Society awarded to both of them special gold medals for those crowning achievements, but who can say that the recognition of the earlier feats did not hearten and encourage them in the masterly campaigns that finally conquered the Poles?

Years afterward at a banquet of The Society in 1913, these two conquerors of the ends of the earth met for the first time face to face.

Peary, to whose exploration The Society contributed a substantial sum, was one of the first to foresee the present era of aerial exploration in which Admiral Byrd also with The Society's aid, has succeeded in flying over both Poles. In his last public appearance, as recorded in THE GEOGRAPHIC for April 1920, Peary said at a meeting of The Society:

Coming Polar explorers, both north and south, are quite likely to use modern means which have sprung into existence within the last few years, according to my own personal impressions, aerial flights.

In these early GEOGRAPHICS there stand out clearly too the genius and the vision of Alexander Graham Bell. In the June 1903 issue, featuring numerous photographs of his experimental kites, he wrote:

I have been continuously at work upon experiments relating to kites. Why, I do not know excepting perhaps because of the intimate connection of the subject with the flying machine problem.

We are all of us interested in aerial locomotion, and I am sure that no one who has observed with attention the flight of birds can doubt for one moment the possibility of aerial flight by bodies specifically heavier than the air. In the words of an old writer: We cannot consider as impossible that which has already been accomplished.

A few years later in 1914 we find him not only predicting that man would fly from America to Europe but asserting that by flying high and taking advantage of eastward winds it might be done between an early breakfast and a late dinner. In this the eyes of genius seem to have seen even beyond the stirring realities of our own present day.

Calculation shows that our best machines should be able to cross the Atlantic

in 13 hours, said Dr. Bell. I hardly dare to say it aloud for publication. It is sufficiently startling to know that it is not only possible but probable, that the passage may be made in a single day. But if, as I imagine, it can be done in 13 hours, you may take an early breakfast in Newfoundland and a late dinner in Ireland the same night.

Charles Augustus Lindbergh was a twelve-year-old schoolboy in Little Falls, Minnesota, when the bearded, kindly Dr. Bell in this address printed in full in THE GEOGRAPHIC was telling the graduating class of the Friends School in Washington that a flight to Europe in a single day was not only possible but probable and was opening their eyes to other challenging developments of the future.

'Did you ever put your head under water and chuck two stones together to see what the sound is like?' he asked the boys.

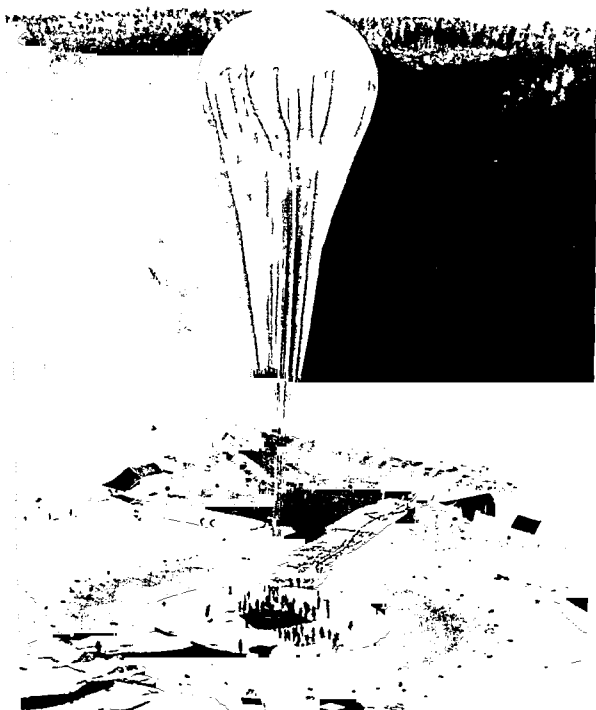
'Three-quarters of the earth's surface is under water and has not yet been explored at least to any great degree.'

Why should we not send down a sound instead (of a sounding line) and listen for an echo from the bottom? Knowing the velocity of sound in water and the time taken for the echo to reach the ear, we should be able to ascertain the depth of the deepest part of the ocean in less than four seconds instead of more than four hours. Here is something worth doing. It has never been tried. I have suggested it a number of times.

Today the floor of the ocean is being systematically mapped and drowned mountain peaks and valleys discovered by just such a sonic sounder. Huge liners from Europe, nearing North America, spot their position in heavy fog by feeling out familiar landmarks—hills and canyons on the floor of the sea—with the formless fingers of sound and echo.

In these old GEOGRAPHICS are reflected the expanding horizons and broadening interests, the new inventions and technical progress which marked the merging of the nineties into the twentieth century.

The modern arts of photography and photo-engraving were just beginning in 1899 and The Magazine began to employ them on a hitherto unheard-of scale. In 1901 it noticeably increased in stature with larger pages and two columns of type as at present instead of a single wide column. In 1902 appeared an article by Sir Henry M. Stanley on A Great African Lake.—Vic



Photograph by Richard H. Stewart

# THE EXPLORER 1 POISED FOR ITS CLIMB INTO THE SKIES

At dawn on July 28, 1911, the gondola had been fastened to its supporting ropes and the balloon was about ready to take from the upper catenary. When the signal was given, the ropes were cut, and the balloon began its climb. The photograph was taken just as the balloon was leaving the weight of the gondola and a few hands were seen on the ground.

toria One of the highlights of 1903 was Dr Bell's paper on "The Tetrahedral Principle in Kite Structure," indicative of The Society's deep interest in aviation, which it has encouraged from the days of kites and crude "aerodromes" to the present era of aerial exploration and penetration of the strato-sphere by giant balloons

A HANDSOME NEW HOME GIVEN THE SOCIETY

In September, 1903, The Society moved from rented quarters into a handsome new structure, Hubbard Memorial Hall, presented to it by the Hubbard and Bell families Deposited in the cornerstone was this document, written by Dr Bell

"This building is erected in memory of Gardiner Greene Hubbard by his children, Gertrude, Mabel, Roberta, and Grace Gertrude, being no longer living, is represented by her only child, Gertrude, daughter of the late Maurice Neville Grossmann, and Roberta, being no longer living, is represented by her surviving children, Helen and Grace, daughters of Charles James Bell

"The library is the gift of Mrs Gardiner Greene Hubbard, who joins her children in establishing this memorial to her husband

"The building is designed to be the home and headquarters of the National Geographic Society, of which Mr Hubbard was President from the date of its organization, January 20, 1888 to the day of his death, December 11, 1897

"The box containing this document and other papers and coins will now be sealed and deposited in the cornerstone of the Hubbard Memorial Building in the presence of Mrs Gardiner Greene Hubbard and all the surviving descendants of Mr Hubbard, together with a few personal friends

"The cornerstone will be laid by Melville Bell Grosvenor, the infant great grandson of Gardiner Greene Hubbard, in the arms of Mrs Hubbard

"Witness our signatures this 26th day of April, 1902

GERTRUDE M HUBBARD (MRS GARDINER GREENE HUBBARD)

Children

MABEL GARDINER BELL AND HER HUSBAND ALEXANDER GRAHAM BELL  
GRACE HUBBARD BELL AND HER HUSBAND CHARLES J BELL

Grandchildren

GERTRUDE HUBBARD GROSSMANN  
ILSIF MAY BELL GROSVENOR AND HER HUSBAND, GILBERT H GROSVENOR  
MARION H GRAHAM BELL  
HELEN A BELL  
GRACE HUBBARD BELL  
GARDINER HUBBARD BELL  
BOBBY BELL

Great Grandchild

MELVILLE BELL GROSVENOR (\) His Mark"

Believing that The Society was now surely set on the path to success, Dr Bell asked in October, 1903, to be relieved of the presidency But he continued an active and most inspiring member of the Board of Trustees and a constant contributor of articles and suggestions to The Magazine until his death in August, 1922

Charles James Bell, whose wife and daughters contributed one-half of the cost of Hubbard Hall, was the first cousin and brother in law of Alexander Graham Bell He was the first Treasurer, 1888-1890, and Chairman of the Finance Committee of The Society from 1900 until his death in 1929 Ever ready with wise counsel he was a staunch friend

In 1905 two happy events took place First, I was able to offer the following resolution to the Board, to which I had been elected in January

"Resolved That the National Geographic Society, through its Board of Managers thank Dr Bell for his generous subscription to the work of The Society from 1899 to 1904 and inform Dr Bell that The Society is now on such a substantial basis that it can relieve him of his subscription for 1905"

Thus Dr Bell was relieved of his generous donation of \$100 per month which he had made for my salary from April 1, 1899 His total gift for this purpose was \$6,900

Second, in my search for an associate to help me carry forward the promising future, I was fortunate to discover John Oliver La Gorce, since 1920 the Vice President of The Society I recommended his appointment to the Board as Assistant Secretary and on September 19, 1905, he was engaged at \$60 per month and he commenced work on September 22, which was his 25th birthday Of his brilliant part in the building of The Society I speak on page 10

The Magazine's development went forward apace Peary on the North Pole Taft on the Philippines Gifford Pinchot on

conserving our forests—these mark some of the issues of thirty years ago

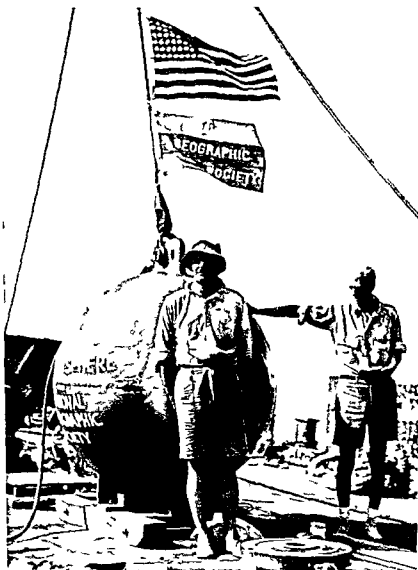
Taft was to write many more articles for The Magazine, to accept membership on The Society's Board of Trustees in 1918, and to continue an active and constant attendant at its meetings until his death in 1930

**"PERDICARIS ALIVE OR  
RAISULI DEAD"**

When a Moroccan chieftain kidnaped an American engineer and the United States Government dispatched its famous ultimatum, "Perdicaris alive or Raisuli dead," THE GEOGRAPHIC was on the job, and in 1906 published the complete story by the kidnaped man, Ion Perdicaris. Members who perhaps had pictured Raisuli as a crude bloodthirsty ruffian learned that he was gracious and dignified a man of fine presence and as humorous and quick at repartee as though he had been born in County Galway.

'He could not bear to hear a child cry,' wrote Perdicaris "while on several occasions I noticed his care to avoid allowing the bees collected on his cup to drown as I saw him lift them out with his spoon or finally empty the cup itself on the grass."

In this same year 1906, appeared the first of Mr Shiras' remarkable flashlight photographs of wild game and in 1907 THE GEOGRAPHIC published among other articles Dr Bell's famous paper on "Aerial Locomotion." An "Awakened Continent to the South of Us" by Flihu Root, the Secretary of State, and "Our Heralds of Storm and Flood." The pictures were improving and the articles too.



Photograph by John Tee-Van

**CONQUERORS OF THE LOWER DEPTHS**

Dr. William Beebe (right) and Otis Barton are back on deck after their world's record dive of 3,028 feet off Bermuda. The United States and the National Geographic Society flags carried down on man's deepest plunge are attached to the cable as they were during the descent (see "A Half Mile Down" by Dr. William Beebe in the NATIONAL GEOGRAPHIC MAGAZINE for December 1934).

Some of the diverse elements that the American melting pot has fused into one people were shown in a series of photographs of immigrants landing at New York. Still wearing their picturesque native costumes, the dress of field or fen or forest, they look surprised and mystified at the wonder that was New York even then. There are Russian Cossacks with knives in their belts, Romanian shepherds in white peasant garb, a German family of one daughter and seven sons, a Scottish family of seven daughters and four sons. Here is America in the making and out through the country today are hundreds of their descendants.

In December, 1907, another young man George W. Hutchison age 21 joined the staff. Indefatigable unselfish and intelligent he gained promotion to Associate Secretary Acting Secretary Secretary and member of the Board of Trustees (see also page 11).

One of the highlights of 1909 was the publication of *The Panama Canal* by Lieut. Col. George W. Goethals, builder of the mighty ditch which altered geography, dividing the land and uniting the world.

Because of The Society's extraordinary growth it was announced in *The Magazine* for May 1909, that the unimproved property on Sixteenth Street adjoining Hubbard Memorial Hall had been purchased for \$11,000 to make room for expansion.

Publishing side by side the first reports by Commander Robert E. Peary and Dr. Frederick A. Cook, both claiming discovery of the North Pole. The Society stated: Before the National Geographic Society can however accept the conclusions of either Commander Peary or Dr. Cook that the North Pole has been attained it will be necessary that the scientific records and data of each explorer be carefully examined by its Committee on Research or by some body or commission acceptable to the Board. Peary submitted his records. They were examined by a Committee of the Board comprising Henry Gannett, Chief Geographer of the United States Geological Survey, O. H. Tittmann, Superintendent of the United States Coast and Geodetic Survey, and Rear Admiral Colby M. Chester, former Superintendent of the United States Naval Observatory.

On their recommendation a special gold medal was awarded to Commander Peary for discovering the Pole on April 6, 1909. The National Geographic Society's championship of this noble American naval officer who was treated as shamefully as Columbus will always be a glorious chapter in the history of our Society. Consult the many references to Peary in this index.

#### FIRST COLOR SERIES IN 1910

Important indeed in the history of the *NATIONAL GEOGRAPHIC* was November 1910 for in that number appeared The Magazine's first series of illustrations in color incidentally the largest collection of photographs in color which had ever been

published in a single issue of any magazine.

*Scenes in Korea and China*, the 24 page series was called. Reproducing them cost several times as much as an ordinary issue but had been made possible by expanding membership and advertising receipts.

Varied and highly interesting had become the contents of *THE GEOGRAPHIC* now. The house fly and charging rhinos, fishes that carry lanterns, Labrador and Liberia, Mexican volcanoes and Holland cheese—all these and many more subjects found a place between its yellow covers in this eventful year.

*Taming the Wild Blueberry* and *The Wild Blueberry Tamed* by Frederick V. Coville gave the first popular accounts of life-long researches by the author that have created a new industry.

Leafing through these volumes toward the present it grows harder and harder to turn the pages rapidly; the pictures and articles are too arresting. *Wild Man and Wild Beast in Africa* by Theodore Roosevelt, Honorary Member of the National Geographic Society, *Reptiles of All Lands* by Raymond L. Ditmars, *Notes About Ants and Their Resemblance to Man* by Dr. William Morton Wheeler.

*The Grandest and Most Mighty Terrestrial Phenomenon: The Gulf Stream* by John Elliott Pillsbury, U. S. Navy, Carl Akeley writes on elephant hunting with rifle and camera. James Bryce joins the list of *GEOGRAPHIC* authors.

#### FIFTY COMMON BIRDS IN COLOR

June 1913 was a notable number. In it were published in full color the portraits of fifty common birds from paintings by Louis Agassiz Fuertes. The series forerunner of many bird paintings to be published in *THE GEOGRAPHIC* was made possible by a marked increase in The Magazine's circulation. In 1913 The Society was able to erect a new building to house its expanding activities.

Events now were moving toward the fatal year of 1914 and in the August Magazine the very month in which the conflagration began. *THE GEOGRAPHIC* issued as a supplement a large Map of Europe in colors including the new Balkan States. In explanation I should state that the previous summer 1913 I was caught in a war scare in Europe and for several days was unable

to get money from the French bank. Every one on the Continent was so certain of an impending war that on my return to Washington I arranged to have a European map prepared, engraved, printed, and stored in The Society's cellar until the outbreak of hostilities. For eight months we held 300,000 copies of this map, awaiting the inevitable conflict.

"The eyes of the civilized world are now focused upon Europe and the stupendous war there beginning," said a brief article announcing issuance of the map. "The map will prove of much value to the members of The Society who wish to follow the series of military campaigns that it is feared will be without parallel in history." Accompanying tables gave the size of the armies and navies of Europe. This was followed in succeeding months with articles on each of the embattled powers.

When The Society's membership passed the half million mark, the Board of Trustees presented to the Editor the following certificate, which was written by Gen. John M. Wilson, previously Chief of Engineers of the U. S. Army.

*Resolved*, That the thanks of the Board of Managers of the National Geographic Society are hereby tendered to Gilbert H. Grosvenor, Director and Editor of the Society, for the superb work he has accomplished within the past eighteen years in bringing our Magazine to the present prominent position it holds among the publications of the Nation and in raising the number of our members from about one thousand to nearly six hundred thousand.

Honorable in every sense, highly accomplished, true in every relation of life, Mr. Grosvenor is admired by us, not only for his literary ability, industry and skill as an editor, but for all his attributes of a true gentleman and scholar.

We wish for him long life, health, happiness and prosperity, and that Heaven's choicest blessings may be showered upon him and the loved ones of his family.

*Resolved*, That the foregoing resolutions be handsomely engrossed and framed signed by the members of the Board of Managers of the National Geographic Society and presented to Mr. Grosvenor with sincere regards of the members of our board.

John M. Wilson, Brigadier General U. S. A.  
E. Pillsbury, Rear Admiral U. S. N. C. M.

Chester Rear Admiral U. S. N., T. L. Macdonald, A. W. Greely, Major General U. S. A. Henry F. Blount, Alexander Graham Bell, Jno. Joy Edson, Frederick V. Coville, Geo. Otis Smith, George R. Putnam, Charles J. Bell, James H. Gore, George Shiras, 3d, Franklin K. Lane, Henry White, S. N. D. North, Rudolph Kauffmann, C. Hart Merriam, David Fairchild, Grant Squires, D. P. Austin, Secretary, O. H. Tittmann, President.  
Washington, January 17, 1917.

#### WAR UNROLLED MAP OF WORLD

"The Civil War," wrote Emerson, "unrolled the map of our Union and hung it in every man's house."

So it was again in the World War, on a bigger scale. To show its members where in Europe mighty armies were locked in conflict, The Society in 1918 issued its famous Map of the Western Front, which came instantly into demand all over the world.

No hasty summary can do justice to the activity of THE GEOGRAPHIC in those war years. One must glance through the issues themselves to appreciate it. In them stir the tenseness, excitement, and patriotism of history's most awful war, a war in which millions of Americans found a new and very personal interest in the lands across the seas and in such prosaic but vital things as how the world is fed and where it gets its steel and coal.

THE GEOGRAPHIC's first Flag Number, in October, 1917, received the praise of President Woodrow Wilson, and the second Flag Number, in September, 1934, with its reproduction of 808 of the world's flags and emblems, was an even greater publication achievement, forming the most comprehensive picture gallery of flags ever published in full color.

An article on 'Our State Flowers,' with paintings by Mary E. Eaton, was printed in 1917 with the result that nearly a score of States have since adopted State flowers by legislative action.

Immediately after the war, in May, 1919, THE GEOGRAPHIC's important series of articles on the States of the Union was launched with Dr. La Gorce's story on 'The Industrial Titan of America'—Pennsylvania.

One of the most popular of all the GEOGRAPHICS was the March 1919, number, devoted entirely to the dog "mankind's best friend" and splendidly illustrated from paintings by Louis Agassiz Fuertes. Through the months and years that fol-



lowed, similar triumphs were achieved by numbers dealing with horses, cattle, deep-sea fishes, birds, wild animals and other interesting creatures. From living models the intricacies of fin, feather, and fur, of leaf and petal were portrayed by the able brushes of Edward Herbert Miner, Hashime Murayama, William Crowder, Allan Brooks, Mary Eaton, Else Bostelmann and Mr. Fuertes. To preserve and make more widely available these color plates and text material The Society publishes its Nature Library, which now comprises ten volumes.

The spirit of romance and adventure behind the story of geography was admirably caught by N. C. Wyeth in his series of mural paintings on *Discovery for The Society's headquarters*, and reproductions of these were distributed to members as supplements. At the same time, J. R. Hildebrand in a series of articles set forth the personalities and the achievements of those courageous men who filled in huge gaps on the map of the world in the Age of Discovery—Columbus, Vasco da Gama, Magellan, Marco Polo, etc.

#### AGE OF AVIATION IN THE GEOGRAPHIC

But if one theme more than another has dominated the pages of geographic history since the war, that subject is flying for the present decades are truly an Age of Aviation in which man has learned to use his wings and with them to widen his horizons in every direction. To this remarkable advance the titles of articles in post-war GEOGRAPHICS form an interesting key.

*Aerial Conquest of Mount Everest*, *Air Adventures in Peru*, *America from the Air* (a unique series of photographs by Captain Albert W. Stevens), *The Arctic as an Air Route of the Future* by Vilhjalmur Stefansson, *Ballooning in the Stratosphere*, by Auguste Piccard, *By Seaplane to Six Continents* by Commander Francesco de Pinedo, *Canada from the Air*, *First Flight to the North Pole*, *Conquest of Antarctica by Air* and *Our Transatlantic Flight by Rear Admiral Richard Evelyn Byrd*, *Exploring the Earth's Stratosphere* and *The Non Stop Flight Across America* by Lieutenant John A. Macready.

*Exploring the Stratosphere*, *Flying the Hump of the Andes*, *Exploring the Valley of the Amazon in a Hydroplane*, *Photographing the Eclipse of 1932 from the Air* by Captain A. W. Stevens, *Fighting Insects*

*with Airplanes*, *First Airship Flight Around the World* (Dr. Hugo Eckener tells The Society about it), *Flights from Arctic to Equator*, by Walter Mittelholzer, *Flying Around the North Atlantic*, by Charles A. Lindbergh and Anne Morrow Lindbergh, *Flying Over Egypt, Sinai, and Palestine*, *Flying the World's Longest Air Mail Route*, *From London to Australia by Aeroplane*, by Sir Ross Smith, *How Latin America Looks from the Air*, by Major Herbert A. Dargue, *Into Primeval Papua by Seaplane*, *On the Trail of the Air Mail and Looking Down on Europe*, by Lieutenant J. Parker Van Zandt, *Man's Amazing Progress in Conquering the Air*, by J. R. Hildebrand, *Navigating the Vorge from Rome to the North Pole and Beyond* by Gen. Umberto Nobile, *On the Wings of the Wind* (in motorless planes) by Howard Siepen, *Our Conquest of the Pacific* by Kingsford Smith and Ulm, *Seeing America from the Shenandoah*.

*President Coolidge Bestows Lindbergh Award*, *Seeing America with Lindbergh*, *To Bogota and Back by Air*, by Charles A. Lindbergh, *Seeing the World from the Air*, by Sir Alan J. Cobham, *Seeing 3000 Years of History in Four Hours* by Maynard Owen Williams, *Skypaths Through Latin America* by Frederick Simpich, *Unexplored Philippines from the Air*.

This is only a partial list, but what a thrilling story it tells of achievement in the air, and what an aviation library of first hand stories by the famous flyers themselves these volumes form!

During the last few years too flyers have gained the lion's share of The Society's coveted medals awarded for outstanding geographic accomplishments. Seven of the last eight medals have gone to aviators and the last two have been won by women flyers. The complete list of medals presented by the National Geographic Society at memorable special meetings which were honored by the presence of Presidents Theodore Roosevelt, Taft, Wilson, Coolidge and Hoover and are all recorded in The Society's Magazine is given in the index.

Glancing back through these 36 years of GEOGRAPHICS one sees how the growth of The Society has coincided with the growth of a national and international viewpoint. The eyes of the average man were turned with new interest toward the poles when explorers strove to conquer them, toward the acquisitions of the United States in the

Spanish American War, toward Central and South America with the construction of the Panama Canal, toward the expansion in the West, toward Europe with the World War, and latterly toward the whole world, now that man has wings and the globe has greatly shrunk as measured in the time it takes to travel over it

Throughout this entire period The Society has sought to present articles and pictures of a type to interest and inform the average intelligent man and woman. The growth in circulation from a paltry 165 to more than a million families is due in large part to this program

#### INCREASE IN MEMBERSHIP DUE TO CO-OPERATION OF MEMBERS

We promised original members, if they would help to increase the number of members and thereby increase the funds available for obtaining material, that we would give them a better GEOGRAPHIC MAGAZINE

Our promise was "Increase our circulation by getting us new members and thus increasing the funds available for investment in The Magazine and we will give you a better Magazine"

The members responded generously, and that we kept our promise is evidenced by comparing the successive volumes of The Magazine and consulting the duration of the membership

In size as well as quality The Magazine has grown year by year. The 12 issues for 1934, with 1,582 pages, form the fattest volume of all, and January-June, 1935, with 800 pages, outstrips any previous six months period

All over the world go these beautifully printed yellow covered GEOGRAPHICS. One member's copy travels first by train, then by mighty ocean liner, by upriver sampan, by coolie courier, and finally by camel caravan to interior China. Other prosaic stencil record cards are magic keys to a monarch's gold bedecked palace in India, a South African ostrich farm, a tea plantation in Malaya, a jungle settlement among wild rubber trees of tropical Amazonia

The tables on pages 14 and 15 show the geographical distribution of The Society's million members and the ratio of members to the population of each State

From this vast host of members everywhere come hundreds of letters bearing witness to the influence of The Society, which soon will observe its 50th birthday

"Whenever things get in a rut, life seems dull, walled in by monotonous repetitions or filled with perplexities, I pick up a NATIONAL GEOGRAPHIC, sit down and go traveling," writes a housewife. "I come back refreshed, enlightened, and more conscious of the fullness of life—and we are very likely to have something different for dinner that night"

"Father reaches for THE GEOGRAPHIC first, he says it gives him adventure and business perspective," writes another member. "Mother uses it for preparation for her woman's club—if the children have not grabbed it for a school assignment"

"I need my GEOGRAPHICS to interpret world news, to make these happenings seem real," writes a third

"The most valuable bequest we have received this year," says a letter from a school principal, "was a set of bound volumes of the NATIONAL GEOGRAPHIC MAGAZINE, extending back 15 years"

"Though some were worn from much use, the member apparently having loaned them frequently, we were glad to receive them because we had tried in vain to obtain some issues, and prices quoted on others by rare book dealers were so costly they were prohibitive"

"Schools require no introduction to the NATIONAL GEOGRAPHIC," observes the *Minnesota Journal of Education*. "The

on history, science, and fiction"

From a member in Ireland comes this "Need I say that I would sooner starve than go without my NATIONAL GEOGRAPHIC. We have nothing on this side of the Atlantic that can touch it"

A letter from a small Massachusetts town brings the annual dues and this confession "The discontinuance of my membership was a sad mistake, which I have sincerely regretted during these dull days of depression. I have missed the bright color of your Magazine with its pictures of what is happening around the world. I have found that economy of dollars and cents is no compensation for the rejection of worth while things"

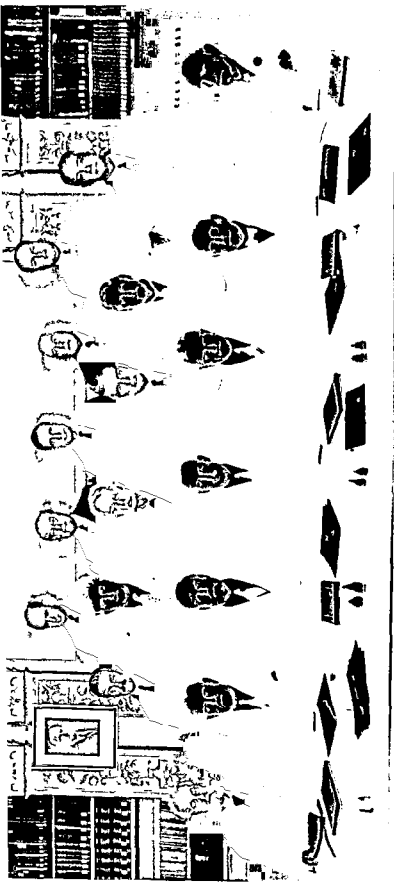
A missionary in Africa writes "It would be impossible to overestimate the joy as well as benefit that my isolated missionaries derive from The Magazine, and not only the missionaries but also our people"



Maynard Owen Williams

#### TRACTOR TREADS IN THE FOOTPRINTS OF MARCO POLO

With the Haardt Trans Asiatic Expedition first to cross Asia by motorcar went Dr Maynard Owen Williams chief of The Society's foreign editorial staff. Overcoming mountain barriers two and a half miles high ice fields vast deserts and plains inhabited by bandit tribes, eleven members of the expedition began the 7,500-mile journey from Syria to China in ten months—April 1931, to February, 1932. A wealth of photographs the first in natural color of Central Asia and much valuable scientific data were obtained concerning little known tribes villages, and historic sites. Above the expedition presses 1 month of the dusty walls of Farab Afghanistan.



TRUSTEES AND OFFICERS OF THE NATIONAL GEOGRAPHIC SOCIETY IN 1930

*Left to Right (seated):* May Gen A W Greely Dr John Oliver La Gorce (Vice President), Mr Chief Justice Charles Evans Hughes Dr Gilbert Grosvenor (President) Gen John J Pershing John Joy Edson (Treasurer) Dr O H Tuttmann *Second row:* Dr George R Putnam Dr George Otis Smith Dr C Hart Merriam Judge John Barton Payne Theodore W Noyes Dr Frederick V Coville *Top:* George W Hutchinson (Secretary), Dr John A Foote Captain Raymond S Patton Dr George K Burgess Robert V Fleming *Trustees not in Group:* Dr David Fairchild Dr J Howard Gore George Shiras 3d Charles G Dawes Dr Alexander Wetmore Admiral William V Pratt Dr Lyman J Briggs Walter S Gifford (who followed the late William Howard Taft) Calvin Coolidge O P Austin C M Chester and G K Burgess

Photograph by Charles Martin

Other expressions, taken at random, say "No one can possibly get more for their money, anywhere in the world, than for the contents of your monthly issues of the NATIONAL GEOGRAPHIC."

"I find that copies never grow old in interest, a rarity among magazines."

#### A WORLD OF "INFINITE VARIETY"

I am often asked, "What will THE GEOGRAPHIC do when subjects of geographic interest have been exhausted?" My invariable reply is, "Our world contains an infinite variety and an inexhaustible reservoir of geographic material of ever surprising interest, if we have but the wit to see and interpret it."

For "armchair traveling" there is no substitute for THE GEOGRAPHIC. Then, too, quick communications link all nations now, so that every man's interest in other parts of the world steadily increases. The day when history was formed by events that could be localized is gone. News and thoughts are now exchanged among nations almost instantaneously, so that the whole world is sensitive to important events in any of its parts. The epic story of these parts—and their ever-changing human and economic geography—is told in the GEOGRAPHIC MAGAZINE.

"Of all sciences," wrote Joseph Conrad in THE GEOGRAPHIC, "geography finds its origin in action, and, what is more, in adventurous action."

The volumes to which this Cumulative Index is the key, tell, subject by subject, the story of geographic action for the last 36 years.

#### THE SOCIETY IS THE PRODUCT OF MANY MINDS

The gratifying progress of the National Geographic Society has been possible because of the happy and harmonious unity of action which has ever animated the Board of Trustees and executive staff in carrying out the altruistic purpose and ideals of The Society. Of course, no member of the Board of Trustees or of the staff can ever acquire a financial interest in the National Geographic Society or its Magazine, nor when he severs his connection with The Society can he carry with him, or bequeath a tangible asset to represent his years of service with the organization.

The National Geographic Society staff

by operating The Society on sound business principles, and combining sagacity and energy with literary skill and patient research work, is enjoying hugely the rich experience of creating, and endowing in its own lifetime, a unique educational institution.

In conclusion, I desire to place in this record tributes of respect and admiration to Vice President John Oliver La Gorce, Secretary George W. Hutchison, and the late John Joy Edson, Treasurer of The Society from April 1, 1901, to July 15, 1935, that, on behalf of The Society and Board of Trustees, I presented to them at notable special meetings held in their honor. Many others have served The Society ably and long.

There is space to mention only those of 10 years' service on The Magazine.

Ralph A. Graves, ingenious and capable Assistant Editor from April 1, 1916, until his lamented death, September, 1932.

J. R. Hildebrand, Assistant Editor, since February, 1919, gifted writer and discerning critic.

Franklin L. Fisher, Chief of Division of Illustrations, since December 1, 1915, who

search Division, since April 1, 1914, author of many outstanding studies.

Maynard Owen Williams, erudite Chief of Foreign Editorial Staff, since June 1, 1919.

Frederick Simpich, Assistant Editor, who while a Foreign Service officer in Turkey, Mexico, and Germany, contributed many cogent articles to THE GEOGRAPHIC.

Albert H. Bumstead, Chief Cartographer since 1915 (see page XII).

Charles Martin, Chief of Photographic Laboratory, since 1915, specialist in color photography.

McFall Kerbey, competent Chief of School Service since September 10, 1920.

Melville Bell Grosvenor, Assistant Editor, alert and industrious, the fourth generation of his family privileged to serve The Society, since September, 1924.

ADDRESS BY GILBERT GROSVENOR AT THE 25TH EDITORIAL BIRTHDAY CELEBRATION OF DR. JOHN OLIVER LA GORCE, NOVEMBER 5, 1930.

We have assembled to celebrate the completion of 25 years distinguished service for

the National Geographic Society by Dr John Oliver La Gorce. Often we have greeted with applause men who, in their search for new knowledge, have carried the banner of The Society to remote places, to the Poles, to Alaska, to China, South America. Equally worthy of recognition and honor is one who has given a quarter century striving mightily and brilliantly to help create this great organization, which supports the explorers, arouses public sentiment to the importance of their work, and makes the reports of their discoveries available to the public.

When our guest of honor, Dr John Oliver La Gorce, joined the staff of the National Geographic Society, 25 years ago it was a small organization of only 10 000. But his responsive nature and keen intellect recognized the possibilities ahead for the National Geographic Society, and his generous heart was stirred to identify his life with a work that promised to promote effectively the welfare of mankind.

In everything The Society has done since, he has been identified. Many of our useful and interesting projects he originated. He has labored with love and ceaseless energy to help develop the organization and bring it to the dignified position it now holds in the life of our country.

The National Geographic Society is the product of many minds and of much labor of many men and women, but it is a conservative statement that without the powerful assistance of John Oliver La Gorce's personality, its gratifying progress would have been impossible.

As evidence of appreciation and encouragement, and in confident hope that the National Geographic Society may benefit for at least another quarter century from his indefatigable energy, altruistic ideals and wide experience, the Board of Trustees present to him this Globe Atlas of The World on which has been inscribed the following

PRESENTED TO  
JOHN OLIVER LA GORCE

BY THE

BOARD OF TRUSTEES OF THE NATIONAL  
GEOGRAPHIC SOCIETY

IN RECOGNITION OF  
TWENTY FIVE YEARS OF DISTINGUISHED  
SERVICE TO  
THE SOCIETY

NOVEMBER 5 1930

ADDRESS BY GILBERT GROSVENOR ON THE  
OCCASION OF MR GEORGE W HUTCHISON'S  
25TH ANNIVERSARY WITH THE  
NATIONAL GEOGRAPHIC SOCIETY, DECEMBER,  
1932

The first of this month marks the completion of twenty five years of devoted and remarkably efficient service to the National Geographic Society by our resourceful colleague, George W Hutchison.

We who are so closely associated with him—Mr Edson, Dr La Gorce, Dr Coville, and myself, for the entire period—have desired to signalize the anniversary of the happy day when he joined forces with us in some manner agreeable to him.

Because of his modesty, we all are aware that he would be most comfortable if we allowed the event to pass unnoticed, or arranged for him to slip off for a few extra hours to the famous Hutchison ducking camp on the Potomac.

But our hearts would not be content unless we were granted an opportunity all together to express our united esteem and affection for George Hutchison personally and to place on record some recognition of his notable, his invaluable part in the building of this institution to which we all devote our energy and strength.

Every large organization must have one officer who delights in detail and has an extraordinary capacity for it, and whose duties require him to say to his associates "No" many times and "Yes" once. Sometimes this official becomes austere, harsh, and crabbed. From him his associates are apt to shy.

But twenty five years of serving as buffer against aggressive contractors and making business decisions have only increased the warmth of George W Hutchison's distinctive and attractive personality.

Ever vigilant and alert for any mechanical or human improvement that will advance The Society's membership interests, always alert for any trespass on The Society's rights, tenacious, straightforward, prudent, George W Hutchison continues always cheerful, genial, and cordial, sympathetic and wise friend, whose counsel every one of his fellow workers seeks when perplexed.

ADDRESS BY GILBERT GROSVENOR AT THE  
TESTIMONIAL DINNER BY THE CITIZENS  
OF WASHINGTON, D. C., IN HONOR OF  
JOHN JOY EDSON IN CELEBRATION OF HIS  
SEVENTY-FIFTH BIRTHDAY, MAY 17, 1921

Several years ago ex President Taft, on arriving at the auditorium where he was to read an address to the members of the National Geographic Society, discovered that he had left his reading glasses at home. Perhaps some of you were there and remember the jolly fifteen minutes that followed. The ushers passed hats while Judge Taft asked for volunteers to lend their spectacles. Every lady and gentleman in that audience seemed to be wearing glasses of some kind that night, judging from the heaps which reached the platform.

Mr. John Joy Edson was present, and in typical Edson manner was among the first to volunteer. After trying a number of spectacles Judge Taft hooked Mr. Edson's over his ears and they fitted perfectly, and the lecture proceeded.

Those of us who have had the wonderful good fortune to be associated with you, Mr. Edson, like to recall this little story. It was so characteristic of you. Whether the matter is trivial or important, you are always eager and alert to lend a hand, and you are always effective.

Probably you have forgotten the incident, as you have a thousand other friendly acts, for after every good turn you shake that great, big head of yours and all remembrance of your own kind deeds fades out of your mind just as a duck shakes the water off its back, and you march on, intent only to find another opportunity for service.

The members of the organization which I have been invited to represent are most mindful of what you, Mr. Edson, have done for it and our affection for and gratitude to you are very deep. It is just twenty years since a notable company of explorers, scientists, and educators gathered in the home of Alexander Graham Bell were sorely perplexed. They believed they had a plan for developing an organization that if realized would render immense service to mankind by making people acquainted with each other, and thus overcoming that ancient and unfortunate human prejudice which calls all unknown people barbarians. We needed for a balance wheel a Treasurer who possessed vision as well as business acumen. How well I remember our relief

and joy when Dr. Bell, then President of The Society, suggested your name, and you accepted. The Society was rather small in those days (April 1, 1901), twenty-five hundred members in all, and the paid staff consisted of two persons!

As we had expected when we persuaded you to accept the post as a labor of love, you initiated policies that have been important in its growth and success and, largely as a result of your wisdom and unswerving cooperation, there has been created in the Nation's Capital an altruistic educational institution whose beneficent influence extends throughout the entire globe.

Today in every hamlet of twenty-five white people in the United States there is at least one representative of The Society who is giving to his community the benefit of the knowledge which he receives from The Society's journal, and seven hundred thousand members, distributed in every part of the United States of America, glow with the realization that each is an active and equal part of a great social institution which makes the world better by enabling its inhabitants to become acquainted with, and thus appreciative of, one another.

The previous speakers, Mr. Edson, have referred to many of your contributions to humanity in the Nation's Capital, but we venture to believe that none is cherished in more hearts and in such distant lands as your prominent intellectual part in the building of the National Geographic Society.

#### PRESIDENTS OF THE NATIONAL GEOGRAPHIC SOCIETY

GARDINER GREENE HUBBARD 1888-1897  
(January 27, 1888—died December 11, 1897)

ALEXANDER GRAHAM BELL, 1898-1903  
(January 7, 1898—resigned October, 1903)

W. J. MCGEE, 1904 (March 5, 1904—April, 1904)

GROVE KARL GILBERT, Acting President,  
1904 (W. J. McGee moved to St. Louis in April 1904)

WILLIS MOORE, 1905-1909 (January 27, 1905—resigned December 1909)

HENRY GANNETT, 1910-1914 (January 19, 1910—died November 3, 1914)

O. H. TITTMANN, 1915-1919 (January 20, 1915—resigned April 1919)

JOHN F. PILLSBURY, 1919 (April 1, 1919—died December 29, 1919)

GILBERT GROSVENOR, 1920 (January 2, 1920)

MEMBERS OF THE BOARD OF TRUSTEES  
(FORMERLY CALLED BOARD OF MANAGERS)  
OF THE NATIONAL GEOGRAPHIC SOCIETY,  
WITH YEAR OF ELECTION TO BOARD AND  
YEAR OF RETIREMENT BECAUSE OF DEATH  
OR RESIGNATION

CLEVELAND APPEL 1888 (r 1890)  
O P ALSTIN, 1903 (d 1933)  
CARL C BARR 1893 (r 1895)  
MARCEL BAKER 1888 (d 1903)  
J R BARTLETT, 1888 (r 1889)  
ALEXANDER GRAHAM BELL 1898 (d  
1922)  
R N BATCHELDER 1893 (r 1894)  
CHARLES J BELL, 1888 (d 1929)  
ROBERT BIRNIE JR 1888 (r 1891)  
HENRY I BLOUNT 1892 (d 1917)  
LYMAN J BRIGGS 1933  
ALFRED H BROOKS 1905 (r 1906)  
GEORGE K BURGESS 1930 (d 1932)  
COLBY M CHESTER 1904 (d 1932)  
T C CHAMBERLAIN 1905 (r 1911)  
CALVIN COOLIDGE 1929 (d 1933)  
I A COVILLE 1897  
C W DARNLEY, JR 1895 (r 1897)  
WILLIAM H DALL, 1896 (r 1899)  
CHARLES G DAWES 1924  
GEORGE DAVIDSON, 1901 (r 1911)  
WILLIAM M DAVIS 1901 (r 1904)  
DAVID T DAY, 1896 (r 1903)  
CHARLES DENBY, 1907 (r 1907)  
JOHN JOY FENSON, 1901 (d 1935)  
DAVID FAIRCHILD 1905  
ROBERT V FLEMING 1929  
JOHN FOOTE 1924 (d 1931)  
HENRY GANNETT 1888 (d 1914)  
WALTER S GIFFORD 1933  
G K GILBERT 1890 (r 1905)  
DANIEL C GILMAN 1901 (d 1908)  
G BROWN GOODF 1888 (d 1896)  
J HOWARD GORE 1906  
A W GREENE 1888  
EDWIN P GROSVENOR 1929 (d 1930)  
GILBERT GROSVENOR 1905  
EVERETT HAYDEN 1890 (r 1898)  
ALFRED J HENRY 1900 (r 1911)  
DAVID J HILL 1899 (r 1903)  
ANGELO HEILPRIN 1901 (d 1907)  
RUSSELL HINMAN 1901 (r 1905)  
GARDNER GREENE HUBBARD 1888 (d  
1897)  
CHARLES EVANS HUGHES 1930

GEORGE W HUTCHINSON 1935  
JOHN HAY 1892 (r 1901)  
WILLARD D JOHNSON 1888 (r 1891)  
F ESTER JONES 1921 (d 1929)  
RUDOLPH KAUFMANN, 1906 (d 1927)  
S H KAUFMANN, 1899 (d 1905)  
C A KENASTON, 1888 (r 1891)  
GEORGE KENNAN 1888 (r 1889)  
JOHN OLIVER LA GORCE 1920  
FRANKLIN K LANG, 1911 (d 1921)  
W J MCGEE 1890 (r 1904)  
T I MACDONALD 1907 (d 1924)  
STEPHEN F MATHER, 1921 (d 1930)  
GEORGE W McVILL, 1894 (r 1895)  
T C MENDENHALL 1890 (r 1894)  
C HART MERRIAM 1888  
HENRY MITCHELL, 1888 (r 1889)  
WILLIAM I MOORE, 1899 (r 1910)  
I H NEWELL 1892 (r 1899)  
S N D NORTH, 1906 (d 1924)  
THOMAS W NOYES, 1927  
HERBERT G OGDEN 1888 (r 1898)  
RAYMOND S PATTON, 1930  
JOHN BARTON PAYNE 1923 (d 1935)  
ROBERT I PEARLY, 1919 (d 1920)  
JOHN J PERSHINE 1927  
JOHN F PILLSBURY, 1909 (d 1920)  
GIFFORD PINCHOT, 1901 (r 1902)  
W B POWELL, 1888 (r 1899)  
WILLIAM V PRATT, 1933  
HENRY S PRITCHETT, 1898 (r 1901)  
J R PROCTOR 1895 (r 1896)  
GEORGE R PUTNAM 1912  
W W ROCKHILL 1895 (r 1896)  
ISRAEL C RUSSELL, 1902 (d 1906)  
R D SALISBURY 1901 (r 1906)  
F R SCHMIDT, 1892 (r 1896)  
GEORGE SHIRAS, 3d 1911  
GRANT SQUIRES 1911 (d 1928)  
GEORGE OTIS SMITH 1907  
JOSEPH STANLEY BROWN, 1899 (r 1900)  
WILLIAM HOWARD TAFT, 1917 (d 1930)  
A H THOMPSON, 1888 (r 1891)  
O H TITTMANN 1888  
B H WARDER 1890 (r 1891)  
J C WELLING 1888 (r 1891)  
ALEXANDER WETMORE 1933  
HENRY WHITE 1915 (d 1927)  
J B WIGHT 1896 (r 1897)  
EDWIN WILLIAMS 1892 (d 1895)  
JOHN M WILSON 1905 (d 1919)



## GEOGRAPHICAL DISTRIBUTION OF MEMBERS OF THE NATIONAL GEOGRAPHIC SOCIETY, MAY, 1935

*United States*

Alabama	4,550
Arizona	3,364
Arkansas	2,404
California	92,905
Colorado	9,032
Connecticut	18,300
Delaware	2,249
Florida	10,197
Georgia	6,268
Idaho	3,730
Illinois	49,678
Indiana	16,548
Iowa	13,272
Kansas	10,369
Kentucky	6,277
Louisiana	5,259
Maine	9,729
Maryland	13,013
Massachusetts	46,568
Michigan	30,483
Minnesota	16,625
Mississippi	2,405
Missouri	16,315
Montana	5,064
Nebraska	8,516
Nevada	1,228
New Hampshire	5,286
New Jersey	47,225
New Mexico	2,000
New York	120,761
North Carolina	7,580
North Dakota	2,750
Ohio	50,416
Oklahoma	8,437
Oregon	13,939
Pennsylvania	71,741
Rhode Island	6,751
South Carolina	3,121
South Dakota	4,061
Tennessee	6,046
Texas	23,895
Utah	3,357
Vermont	3,604
Virginia	11,530
Washington	19,920
West Virginia	6,308
Wisconsin	18,860
Wyoming	2,557
District of Columbia	9,993

*United States Territories etc*

Canada	37,127
Foreign	107,245
Miscellaneous	3,023

Total	1,008,694
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*U. S. Territories and Possessions*

Alaska	1,191
Canal Zone	757
Guam	14
Hawaii	2,640
Marshall Islands	1,319
Puerto Rico	760
Samoa (American)	12
Virgin Islands	15

Total	6,779
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*Canada*

Alberta	3,070
British Columbia	5,379
Manitoba	1,976
New Brunswick	860
Northwest Territory	35
Nova Scotia	1,418
Ontario	15,136
Prince Edward Island	138
Quebec	7,078
Saskatchewan	1,944
Yukon Territory	93

Total	37,127
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*Central America*

Costa Rica	208
Guatemala	379
Honduras	223
Nicaragua	75
Panama	118
Salvador	136

Total	1,139
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*South America*

Argentina	2,454
Bolivia	138
Brazil	2,181
Chile	776
Colombia	512
Ecuador	137
British, French, and Dutch Guiana	111
Paraguay	32
Peru	542
Uruguay	229
Venezuela	584

Total	7,696
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*Mexico*

Mexico	2,926
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*Asia*

Afghanistan	14
Arabia	27
China	1,895
French Indo-China	53
Hong Kong	290
India	2,153
Iran (Persia)	193
Iraq	65
Japan	916
Levant States (Syria)	106
Palestine	186
Siam	170
Siberia	4
Straits Settlements	465
Turkey	219

Total	6,749
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*Europe*

Albania	17
Austria	112
Belgium	1,225
Bulgaria	10
Czechoslovakia	851
Danzig	13
Denmark	245

Estonia	66
Finland	236
France	2,507
Germany	1,995
Gibraltar	10
Great Britain and Ireland	40,561
Greece	236
Hungary	310
Italy	2,066
Latvia	111
Lithuania	48
Luxembourg	31
Monaco	29
Netherlands	2,361
Norway	1,300
Poland	398
Portugal	561
Romania	243
Spain	1,560
Sweden	1,772
Switzerland	2,270
Union of Soviet Socialist Republics	96
Yugoslavia	233
<b>Total</b>	<b>67,325</b>

*Africa*

Africa	7,039
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*West Indies Bermuda etc*

Aruba	67
Bahamas	57
Barbados	109
Bermuda	240
Cuba	1,539
Curaçao	116
Dominican Republic	183
Haiti	89
Isle of Pines	19
Jamaica	288
Leeward Islands	43
Martinique	27
Trinidad	271
Windward Islands	50
Miscellaneous	7
<b>Total</b>	<b>3,100</b>

*Islands Miscellaneous*

Ascension	2
Azores	80
Canary	61
Cook	9
Cyprus	28
Falkland	10
Fiji	90
Iceland	27
Madeira	41
Malta	53
New Caledonia	5
Newfoundland	336
New Hebrides	9
Norfolk	2
Samoa	33
Society	16
Solomon	18
Tonga or Friendly	8
Miscellaneous	65
<b>Total</b>	<b>888</b>

*Netherlands (First Indies)*

Billiton	4
Borneo	74
Celebes	37
Java	497
New Guinea and Papua	96
Sumatra	213
Timor	16
Miscellaneous	26
<b>Total</b>	<b>963</b>

*Australia*

Australia (including Tasmania)	10,372
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*New Zealand*

New Zealand	4,049
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## RATIO OF MEMBERS TO POPULATION OF EACH STATE

1 District of Columbia	1 52
2 California	1 63
3 Oregon	1 70
4 Nevada	1 78
5 Washington	1 81
6 New Jersey	1 87
7 Connecticut	1 90
8 New Hampshire	1 90
9 Wyoming	1 92
10 Massachusetts	1 93
11 Vermont	1 101
12 Rhode Island	1 104
13 Maine	1 105
14 New York	1 108
15 Delaware	1 108
16 Montana	1 109
17 Colorado	1 119
18 Idaho	1 122
19 Maryland	1 128
20 Ohio	1 135
21 Arizona	1 135
22 Pennsylvania	1 137
23 Florida	1 148
24 Utah	1 157
25 Illinois	1 158
26 Wisconsin	1 159
27 Minnesota	1 161
28 Michigan	1 164
29 Nebraska	1 167
30 South Dakota	1 183
31 Kansas	1 186
32 Iowa	1 191
33 Indiana	1 201
34 Virginia	1 215
35 New Mexico	1 218
36 Missouri	1 230
37 Texas	1 253
38 North Dakota	1 255
39 West Virginia	1 279
40 Oklahoma	1 293
41 Louisiana	1-416
42 Kentucky	1-426
43 North Carolina	1-431
44 Tennessee	1-453
45 Georgia	1-479
46 South Carolina	1 567
47 Alabama	1 596
48 Arkansas	1 801
49 Mississippi	1 861



Photograph by Edw. A. W. Lord

ALL WHO ENTER ITS PORTALS LEAVE WITH A GREATER KNOWLEDGE OF THE WORLD AND ITS PEOPLES

Snow-etched branches frame the illuminated facade of the executive and editorial offices of the National Geographic Society on Sixteenth Street in Washington, D. C. Here in 1935 will be observed the half-century anniversary of The Society whose million members reside in every civilized community of the world.

# NATIONAL GEOGRAPHIC MAGAZINE

## CUMULATIVE INDEX

January, 1899-December, 1934

(\*) Out of print

### A

Abbot, C. G.:

Do Volcanic Explosions Affect Our Climate?  
By C G Abbot Vol XXIV, pp 181 193, 9  
ills, 1 diagram, Feb., 1913 \*

Hunting an Observatory A Successful Search  
for a Dry Mountain on Which to Establish the  
National Geographic Society's Solar Radiation  
Station By C G Abbot Vol L, pp 503-518,  
13 ills, 1 quarter page map, Oct., 1920 75c.

Measuring the Sun's Heat and Forecasting the  
Weather The National Geographic Society to  
Maintain a Solar Station in a Remote Part  
of the World to Coöperate with Smithsonian  
Institution Stations in California and Chile  
By C G Abbot Vol XLIX, pp 111 126, 15  
ills, 1 chart, Jan., 1928 50c

Abbot, John M.:

Buried City of Ceylon By John M Abbot Vol  
XVII, pp 613 622, 8 ills, Nov., 1906 \*

Abruzzi, Duke of the:

Duke of the Abruzzi in the Himalayas Vol XVI,  
pp 245 249, Mar., 1910 \*

Honors to Peary (Presentation of Hubbard  
Medal) Vol XVIII, pp 49 60, 1 ill, Jan.,  
1907 75c

Abydos, Egypt

Excavations at Abydos Vol. XIV, pp 358 359  
Sept., 1903 \*

Reconstructing Egypt's History By Wallace N  
Stearns Vol XXIV, pp 1021 1042, 21 ills  
Sept., 1913 \*

Resurrection of Ancient Egypt By James  
Balkie Vol. XXIV, pp 957 1020, 46 ills, 1  
page map, Sept., 1913 \*

Sacred Ibis Cemetery and Jackal Catacombs at  
Abydos By Camden M Coburn Vol XXIV,  
pp 1042 1056 10 ills, Sept., 1913 \*

Abyssinia. See Ethiopia

Abyssinia, the Country and People By Oscar T  
Crosby Vol XII, pp 89 102, Mar 1901 \*

Aces Among Aces (Aviators) By Laurence La  
Tourette Driggs Vol XXXIII, pp 553-559,  
9 ills, June 1918 50c

Aces of Aviation (Gulls) 16 ills from photo-  
graphs by A H Hall Vol XLVII, pp 665-  
672, June 1925 50c

Aces of the Air By Capt. Jacques De Sieyes. Vol  
XXXIII, pp 5-9, 2 ills, Jan 1918 \*

Acorns, a Possibly Neglected Source of Food. By  
C Hart Merriam Vol XXXIV pp 129 137,  
8 ills Aug, 1918 50c

Across French and Spanish Morocco By Harriet  
Chalmers Adams Vol XLVII, pp 327 356,  
19 ills in black and white, 16 ills in color, 1  
half page map, Mar., 1925 50c

Across Madagascar by Boat, Auto, Railroad, and  
Filanrana By Charles F. Swingle Vol LVI,  
pp 172 211, 42 ills, 1 half page and 1 three-  
quarters page maps, Aug, 1929 50c

Across the Equator with the American Navy By  
Herbert Corey. Vol. XXXIX, pp 571 624, 53  
ills, June, 1921 50c

Across the Mide in a Canoe Two Americans Padd  
le Along the Canals of Southern France from  
the Atlantic to the Mediterranean By Melville  
Chater Vol LII pp 127 167, 49 ills, 1 half  
page map Aug., 1927 50c

Across Wildest Africa (Ethiopia, French Somali  
land and Nuer Country) By A Henry Savage  
Landon Vol XIX, pp 694 737, 38 ills, 1 half  
page map, Oct., 1908 75c

Agalia, Turkey

Historic Islands and Shores of the Aegean Sea  
By Ernest Lloyd Harris Vol XXVIII, pp  
231 262, 29 ills, 1 half page map Sept., 1915  
50c

Adam, Tassilo:

Java Queen of the East Indies 3 ills in color  
from autochromes by Tassilo Adam Vol LVI,  
pp 334-359, Sept., 1929 50c

Adams, Clifton:

Arizona Adventures in Arizona Color Photog-  
raphy 14 ills in color from autochromes by  
Clifton Adams Vol LV pp 28-37, Jan, 1929  
50c

California Sunshine Land of Fruits, Flowers,  
Movies, and Sport 27 ills in color from  
natural color photographs by Clifton Adams  
Vol. LXVI, pp 545 552, 609 516, Nov., 1934  
50c

Chicago, Titan of the Middle West 12 ills in  
color from direct color photographs by Clifton  
Adams Vol LIX, pp 584 593, May, 1931 50c.

England Cradles of English History 14 ills in  
color from natural-color photographs by Clif-  
ton Adams Vol. LIX, pp 268 277, Mar., 1931  
50c

England From Stratford to the North Sea 16  
ills in color from autochromes by Clifton  
Adams Vol LV pp 616-625 May, 1929 50c

England Lakeland, Home of England's Nature  
Poets 15 ills in color from autochromes by  
Clifton Adams Vol LV pp 592 601, May,  
1929 50c

## Adams Clifton—Continued

- England. *Books and Days of Storied England* 11 ills in color from natural color photographs by Clifton Adams Vol LXI pp 187-191 Feb 1932 50c
- Florida. *High Lights in the Sunshine State* 38 ills in color from autochromes by Clifton Adams Vol LVII pp 683 Jan 1930 50c
- Gettysburg. *Most Famous Battle Field in America* 6 ills in color from natural color photographs by Clifton Adams and Orren R. Loudon Vol I\ pp 66-75 July 1931 50c
- Haiti. *Gay Colors in the Land of Black Majesty* 13 ills in color from natural color photographs by Clifton Adams Vol LXVI pp 445-457 Oct 1934 50c
- Illinois. *Rambles Through the Prairie State* 15 ills in color from direct color photographs by Clifton Adams Vol LIX pp 544-553 May 1931 50c
- Ireland. *Hills and Dales of Erin* 11 ills in color from autochromes by Clifton Adams Vol II pp 316-333 Mar 1927 50c
- London. *High Lights of London Town* 15 ills in color from autochromes by Clifton Adams Vol LV pp 568-577 May 1929 50c
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third page map, Apr., 1933 \*

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392, Oct, 1904 \*

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**Fishes That Build Nests and Take Care of Their Young** Vol XVIII, pp 400-412, 16 illus, June, 1907 75c

**Fishes That Carry Lanterns** Vol XXI, pp 453 456, 5 illus, May, 1910 \*

**Fishing for Pearls in the Indian Ocean** By Bella Sidney Woolf Vol XLIX, pp 161 183 21 illus, Feb, 1926 50c

**Flashes from Ocean Depths** 8 illus in color from paintings by Else Bostelmann Vol LXVI, pp 677 684, Dec, 1934 50c

**Glass Bottom Boat** By Charles Frederick Holder Vol XX, pp 761 778 17 illus, Sept, 1909 75c

**Golden Trout** Vol XVII, p 424 July, 1906 75c

**Goldfish and Their Cultivation in America** By Hugh M Smith Vol XLVI, pp 375-400, 14 illus in black and white, 8 illus in color, Oct, 1924 50c

**Half Mile Down Strange Creatures Beautiful and Grotesque as Elements of Fancy Reveal Themselves at Windows of the Bathysphere** By William Beebe Vol LXVI, pp 681 704 28 illus in black and white, 16 illus in color, 1 third page map, Dec, 1934 50c

**Helping the Filipino Fisheries** Vol XVIII, pp 795 796, Dec, 1907 75c

**Interesting Citizens of the Gulf Stream** By Dr John T Nichols Vol XXXIX, pp 63 84, 11 illus in black and white, 16 illus in color, Jan, 1921, 50c

Contains descriptions and illustrations of the following species: Angel Fish, Blue Striped Grunt, Buffalo Trunkfish, Butterfly Fish, Cowfish, Cow Pilot, Cuckold, Four Eyed Fish, Green Moray, Rock Fish, Portuguese Man-of-War, Queen Trigger Fish, Rainbow Parrot Fish, Rock Hind Sea Horse, Shark Sucker Spade Fish, Squirrel Fish, Yellow Tail

**Iridescent Denizens of the Miniature Aquarium**, 8 illus in color from paintings by Hasbime Morayama Vol LIX, pp 292-301, Mar, 1931 50c

**Jumping Salmon** Vol XIX, p 124, 1 ill, Feb 1908 75c

**King Herring** An Account of the World's Most Valuable Fish, the Industries It Supports, and the Part It Has Played in History By Hugh M Smith Vol XX, pp 701 735, 21 illus, Aug, 1909 75c

**Life on a Coral Reef** The Fertility and Mystery of the Sea Studied Beneath the Waters Surrounding Dry Tortugas By W H Longley Vol LI pp 61 83 22 illus in black and white, 8 illus in color, Jan 1927 50c

**Fishes and Fisheries—Continued**

**Life on the Grand Banks** An Account of the Sailor Fishermen Who Harvest the Shallow Waters of North America's Eastern Coasts By Frederick William Wallace Vol XL, pp 1 28, 29 illus, July, 1921 \*

**Luminous Life in the Depths of the Sea** 8 illus in color from paintings by E Bostelmann Vol LIX, pp 666 675, June, 1931 50c

**Mysterious Life of the Common Eel** By Hugh M Smith Vol XXIV, pp 1140 1146, 3 illus, Oct, 1913 \*

**Native Oysters of the West Coast** By Robert E C Stearns Vol XIX, pp 224 226 Mar, 1908 75c

**Notes from a Naturalist's Experiences in British Guiana** By C H Eigenmann Vol XXII, pp 859 870, 8 illus, Sept, 1911 \*

**Notes on the Sea Dyaks of Borneo** By Edwin H Gomes Vol XXII, pp 695 723, 26 illus, Aug, 1911 75c

**Our Fish Immigrants** By Hugh M Smith Vol XVIII, pp 382-400, 3 illus, June, 1907 75c

**Our Heritage of the Fresh Waters: Biographies of the Most Widely Distributed of the Important Food and Game Fishes of the United States** By Charles Haskins Townsend Vol XLIV, pp 109 159, 25 illus in black and white 16 illus in color, Aug, 1923 50c

Contains descriptions and illustrations of the following species: Black Bass, Brook Trout, Calico Bass Catfish, Common Eel, Drum, Eastern Pickerel, Lake Sturgeon, Lake Trout, Muskellunge, Pike, Pike-Perch, Rainbow Trout, Rock Bass, Whitefish, White Perch Yellow Perch

**Our Smallest Possession—Guam** By William L Safford Vol XVI, pp 229 237, 5 illus, May, 1905 \*

**Oysters** The World's Most Valuable Water Crop By Hugh M Smith Vol XXIV, pp 237 281, 21 illus, Mar, 1913 \*

**Pearl Fisheries of Ceylon** By Hugh M Smith Vol XXIII, pp 173 194, 13 illus, 1 quarter page map, Feb, 1912 \*

**Planting Fishes in the Ocean** By George M Bowers Vol XVIII, pp 715 723, 5 illus, Nov, 1907 75c

**Purple Veil** A Romance of the Sea Vol XVI pp 325 344, 3 illus, July, 1905 75c

**Rainbow Denizens of the Aquarium** 16 illus in color from natural-color photographs by Edwin L Wisner Vol LXV, pp 97 104, Jan, 1934 50c

**Rise of the New Arab Nation** By Frederick Simpich Vol XXXVI pp 363-393 17 illus, 1 page map, Nov, 1919 50c

**Round Trip to Davy Jones's Locker** Peering into Mysteries a Quarter Mile Down in the Open Sea, by Means of the Bathysphere By William Beebe Vol LIX, pp 633 678, 14 illus in black and white, 8 illus in color, 1 quarter page map June, 1931 50c

**Sailing the Seven Seas in the Interest of Science** Adventures Through 157,000 Miles of Storm and Calm, from Arctic to Antarctic and Around the World, in the Non-Magnetic Yacht *Carnegie* By J P Ault Vol XLII, pp 631 699 47 illus, 1 chart, Dec, 1922 50c

**Fishes and Fisheries—Continued**

**Shark Fishing—An Australian Industry** By Norman Milson Vol LXII, pp 369 386, 22 Ills, Sept, 1932 \*

**Some Giant Fishes of the Seas** By Hugh M Smith Vol XX, pp 637 644, 6 Ills, July, 1909 75c

**Treasure-House of the Gulf Stream—The Completion and Opening of the New Aquarium and Biological Laboratory at Miami, Florida** By John Oliver La Gorce Vol XXXIX, pp 53 68, 5 Ills in black and white, 16 Ills in color, Jan, 1921. 50c

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**Tropical Toy Fishes More Than 600 Varieties of Aquarium Pygmies Afford a Fascinating Field of Zoological Study in the Home** By Ida Mellen Vol LXV, pp 287-317, 20 Ills in black and white, 8 Ills in color, Mar, 1931 50c

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**When the Father of Waters Goes on a Rampage—An Account of the Salvaging of Food Fishes from the Overflowed Lands of the Mississippi River.** By Hugh M Smith Vol XXXVII, pp 369-386, 18 Ills, Apr, 1920 \*

**When the Herring Fleet Comes to Great Yarmouth** By W Robert Moore Vol LXVI pp 233 250, 19 Ills, Aug, 1934 50c

**Wonderer Under Sea** By William Beebe Vol LXII pp 741 758 13 Ills in black and white, 8 Ills in color, Dec, 1932 50c

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**Fisauye Lake, Alaska**

**Valley of Ten Thousand Smokes An Account of the Discovery and Exploration of the Most Wonderful Volcanic Region in the World** By Robert F Griggs Vol XXXIII pp 115 169 46 Ills 1 half page map, panorama Feb 1918 \*

**Fita-Fitas (Samoan Soldiers)**

**America's South Sea Soldiers** By Lorena Mac Intyre Quinn Vol XXXVI pp 267 274, 6 Ills Sept, 1919 50c

**Fitch, Robert F.:**

**China** 4 Ills in color from photographs by Robert F Fitch Vol XXXVIII, pp 277 389 Nov, 1920 \*

**Life Afloat in China Tens of Thousands of Chinese in Congested Ports Spend Their Entire Existence on Boats** By Robert F Fitch Vol LI pp 665 686, 28 Ills, June 1927 50c

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**Remarkable Photographs of Flamingo Nests** Vol XV, pp 82 83 1 Ill, Feb 1904 \*

**Story of the Flamingo** Vol XVI p 50 Jan 1905 \*

**Flamingos—Continued**

Where Roosevelt Will Hunt By Sir Harry Johnston. Vol. XX, pp 207-250 43 Ills., special map supplement in colors, Mar., 1909 75c.

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American Wild Flowers Vol. XXVII, pp 483 517, 29 pls in color, May, 1915 50c

Contains descriptions and illustrations of the following species American Holly, Bind weed, Buttercup, Black Hawk, Black Eyed Susan, Blue Flag, Bluebell Blue Eyed Grass, Broad Leaved Arrow Head, Bulb Bearing Loosestrife, Buttercup, Canada Lily, Cardinal Flower, Day Flower, Evening Primrose, Jewel Weed, Moth Mullein, Partridge Berry, Purple Flowering Raspberry, Purple Loosestrife, Showy Lady's Slipper, Star Grass, Trailing Arbutus, Turk's Cap Lily, Virginia Strawberry, Wild Columbine, Wild Geranium, Wild Pink, Witch Hazel

Ashley River and Its Gardens (South Carolina) By T T H Shaffer Vol. XLIX, pp 525 550 6 pls in black and white, 7 pls in color, May, 1926 50c

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Contains descriptions and illustrations of the following species Chalcory, Common Mullen, Butter and Eggs Butterfly Weed, Button Bush, Irewed, Forget Me Not, Fringed Gentian, Jack in the Pulpit, New England Aster, Poison Ivy, Spotted Boneset, Steeple Bush, Swamp Rose Mallow, Virginia Creeper, Wild Yellow Plum, Yarrow

Cultivation of the Mayflower By Frederick V Corille Vol. XXVII pp 518 519 1 ill, May, 1915 50c

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Familiar Grasses and Their Flowers By E J Geske and W J Showalter Vol. XXXIX, pp 625 636, 8 pls in color June, 1921 50c

Family Tree of the Flowers By Frederic E Clements and William Joseph Showalter Vol. LI, pp 555 563 1 ill in black and white 1 ill in color, May, 1927 50c

Great White Monarch of the Pacific Northwest (Mount Rainier) By A H Barnes Vol. XXIII, pp 593 626 31 pls, 1 half page map, June, 1912 \*

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Midsummer Wild Flowers Vol. XLII, pp 35 59, 16 pls in color, July 1922 50c

Contains descriptions and illustrations of the following varieties American Waterlily, Aster, Beach Pea, Bluebell, Blue Vervain, Broom, Closed Gentian, Corn Cockle, Corydalis, Dodder, Early Goldenrod English Plantain, False-Foxglove, Field Mustard Gayfeather, Golden St John's Wort, Groundcherry, Hairy Penstemon, Hyssop Skullcap, Milkweed Milk wort, Mistflower, Pickersweed, Pokeweed, Pricklepopp, Purple Avena, Purple Wild bergamot, Rosemallow, Sheep Laurel, Sheep Sorrel, Silver Aster, Spiderwort, Sweetshrub, Tansy, Teasel, Turtlehead Venus Looking Glass Yellow Fringed Orchid



## Flowers—Continued

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Contains descriptions and illustrations of the following families: Apple, Bitter Root, Cactus, Carnation, Colorado Columbine, Daisy, Golden Popp, Goldenrod, Indian Paintbrush, Magnolia, Mistletoe, Moccasin Flower, Mountain Laurel, Orange, Oregon Grape, Pasque Flower, Peach, Pine, Red Clover, Rhododendron, Rose, Sagebrush, Salsaparilla, Sego Lily, Sunflower, Syringa, Texas Bluebonnet, Trumpet Vine, Violet

**Pages from the Floral Life of America** Vol. XLIII, pp. 41-75, 55 illus. in color, July, 1925 50c

Contains descriptions and illustrations of the following families Acanthus, Amaranth, Amaryllis, Apple, Arum, Aster, Blacknell, Bladderwort, Borage, Broomrape, Buckthorn, Buckwheat, Bunchflower, Capewort, Chicory, Dispensal, Dogwood, Evening Primrose, Figwort, Four O'Clock, Fumitory, Gentian, Ginseng, Gooseberry, Goosefoot, Gourd, Heath, Horsetail, Lily of the Valley, Logan, Madwort, Magnolia, Meadowbent, Milkwort, Milkweed, Mimosa, Nettle, Olive, Parsley, Passionflower, Pea, Plantain, Pondweed, Ragweed, Rush, Saxifrage, Senna, Sundew, Waterlily

**Photographing the Marvels of the West in Colors** 6 illus. in color from natural color photographs by Fred Payne Clatworthy Vol. LIII, pp. 694-719, June, 1925 50c

**Some Odd Pages from the Annals of the Tulip—A "Made" Flower of Unknown Origin Took Medieval Europe by Storm and Caused a Financial Panic in the Netherlands.** By Leo A. Borah Vol. LXIV, pp. 321-343, 12 illus. in black and white, 10 illus. in color, Sept., 1933 50c

**Sunshine Land of Fruits, Flowers, Movies and Sport** 41 illus. in color from natural color photographs by Clifton Adams and Fred Payne Clatworthy Vol. LXVI, pp. 543-552, 569-576, 585-592, Nov., 1934 50c

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**Wild Flowers of the West (United States).** By Edith S. Clements Vol. LI, pp. 566-622, 206 illus. in color, May, 1927 50c

Contains descriptions and illustrations of the following families Aster, Bellflower, Borage, Broomrape, Buckthorn, Buckwheat, Cactus, Capewort, Chicory, Crowfoot, Dogbane, Evening Primrose, Evening Star, Figwort, Flax, Four O'Clock, Fumitory, Gentian, Geranium, Gooseberry, Heath, Honeysuckle, Indianpipe, Iris, Leadwort, Lily, Lobelia, Mallow, Mesembryanthemum, Milkweed, Milkwort, Mint, Morning-glory, Mustard, Orchid, Oryzopsis, Parsley, Pea, Phlox, Pink, Poppy, Potato, Primrose, Purslane, Rockrose, Rose, St. Johnswort, Saxifrage, Violet, Waterleaf, Wintergreen, Woodsorrel

**Flying.** By Gilbert Grosvenor Vol. LXIII, pp. 585-630, 33 illus. in black and white, 17 illus. in duotone, May, 1933 \*

**Flying Around the North Atlantic** By Anne Morrow Lindbergh; Foreword by Charles A. Lindbergh Vol. LXVI, pp. 259-337, 82 illus., 1 two-page and 1 two-thirds page map, Sept., 1934 50c

**Flying in France** By Capt. André de Beroetta Vol. XXXIII, pp. 9-26, 12 illus., Jan., 1918 \*

**Flying Over Egypt, Sinai, and Palestine** Looking Down Upon the Holy Land During an Air Journey of Two and a Half Hours from Cairo to Jerusalem By Brig. Gen. R. R. C. Groves and Maj. J. R. McCrindle Vol. I, pp. 313-355, 26 illus., 1 half page map, Sept., 1926 50c

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**Flying the "Hump" of the Andes** By Capt. Albert W. Stevens Vol. LIX, pp. 595-636, 36 illus., 1 third page map, May, 1931 50c

**Flying the World: In a Homemade Airplane the Author and Her Husband Enjoy 10,000 Miles of Adventurous Flight Across Europe, Asia, and America.** By Gladys M. Day. Vol. LXI, pp. 635-690, 41 illus., 1 half page map, June, 1932 50c

**Flying the World's Longest Air Mail Route** From Montevideo, Uruguay, Over the Andes, Up the Pacific Coast, Across Central America and the Caribbean to Miami, Florida, in 67 Thrilling Flying Hours By Julius B. Wood. Vol. LVII, pp. 261-325, 65 illus., 1 half page map, Mar., 1930 50c

**Folkner, Roland P.: Conditions in Liberia** By Roland P. Folkner, George Sale, and Emmett J. Scott. Vol. XXII, pp. 729-741, 9 illus., Sept., 1910 \*

**Fouck, René: Aces Among Aces** By Laurence La Tourette Driggs Vol. XXXIII, pp. 568-590, 9 illus., June, 1918 50c

**Foods: Acorn, a Possibly Neglected Source of Food** By C. Hart Merriam Vol. XXXI, pp. 129-157, 8 illus., Aug., 1918 50c

**America's Debt to the Hen.** By Harry R. Lewis. Vol. LI, pp. 453-467, 15 illus., Apr., 1927 50c

**Appeal to Members of the National Geographic Society (Food Conservation)** Vol. XXXIII, pp. 347-348, 2 illus., Apr., 1918 50c

**Deer Farming in the United States.** Vol. XXI, pp. 269-276, 2 illus., Mar., 1910 \*

**Dumbo, the National Dish of Liberia.** By G. Collins Vol. XXII, pp. 84-85, 5 illus., Jan., 1911 \*

**Farmers Since the Days of Noah China's Remarkable System of Agriculture Has Kept Alive the Densest Population in the World** By Adam Warwick. Vol. LI, pp. 489-500, 37 illus., Apr., 1927 50c

**Fearful Famine of the Past—History Will Repeat Itself Unless the American People Conserve Their Resources** By Ralph A. Graves Vol. XXXII, pp. 68-90, 11 illus., July, 1917 50c

**Food Armies of Liberty** By Herbert Hoover Vol. XXXII, pp. 187-196, 6 illus., Sept., 1917 50c

**Food—Continued**

- Food for Our Allies in 1919 By Herbert Hoover  
Vol XXXIV, pp 242 244, Sept, 1918 \*
- Forerunners of Famine By Frederic C. Walcott. Vol XXXIII, pp 336 347, 4 illus, 4 diagrams, 1 half page map, Apr, 1918 50c
- Forming New Fashions in Food: The Bearing of Taste on One of Our Great Food Economies, the Dried Vegetable, Which is Developing into a Big War Industry. By David Fairchild Vol. XXXIII, pp 356 368, 11 illus, Apr, 1918 50c
- Helping to Solve the Allies' Food Problem. America Calls for a Million Young Soldiers of the Commissary to Volunteer for Service in 1918 By Ralph A. Graves Vol XXXIII, pp 170 194, 23 illus, Feb, 1918 \*
- How the World is Fed By William Joseph Showalter Vol XXIX, pp 1 110, 101 illus. Jan, 1916 50c.
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- Gilbert Grosvenor Trail, Antarctica. Vol LVIII, pp 184, 193 198, air view 218, Aug., 1930 50c

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- Great Falls of the Potomac By Gilbert Grosvenor Vol LIII, pp 385 400, 10 pls, Mar. 1928 50c
- Great Natural Bridges of Utah Vol XVIII, pp 199 204, 3 pls, Mar., 1907 \*
- Greek Bronzes Vol XXIII, p 101, Jan., 1912 \*
- Greely's "Handbook of Alaska" By Gilbert H Grosvenor. Vol XX, pp 491 492, May, 1909 75c
- Haiti and Its Regeneration by the United States Vol XXXVIII, pp 497 511, 10 pls, Dec., 1920 50c.
- Harriman Alaska Expedition in Coöperation with the Washington Academy of Sciences By Gilbert H Grosvenor Vol X, pp 225 227 June, 1890 \*
- Hawaiian Islands America's Strongest Outpost of Defense—The Volcanic and Floral Wonder land of the World By Gilbert Grosvenor Vol XLV, pp 115 238, 106 pls in black and white 21 pls in color, 1 page, 5 half page maps 1 diagram Feb., 1924 50c
- Healer of Humanity's Wounds Vol XXXIV, pp 308 324, 16 pls, Oct., 1918 \*
- Henry Gannett (Tribute to Late President of The Society) Vol XXVI, pp 609 613, 1 pl, Dec., 1914. 50c
- Heroic Flags of the Middle Ages By Gilbert Grosvenor and Byron McCandless Vol XXXII, pp 388 399, 96 pls in color, Oct., 1917 50c
- History of National Geographic Society See Introduction to this Index, p 1 16
- Home, Wild Acres, Maryland Vol LI, III, 202 Feb., 1927 Vol LVII, III 532, May, 1930
- Honors for Amundsen (Presentation of Hubbard Medal) Vol XIX, pp 55 76, 13 pls, Jan., 1908 75c.
- Honors to Amundsen and Peary (Presentation of Special Gold Medal to Amundsen) Vol XXIV, pp 113 130, 5 pls, Jan., 1913 \*
- Honors to Colonel Goethals. The Presentation by President Woodrow Wilson of the National Geographic Society Special Gold Medal and Addresses by Secretary of State Bryan, the French Ambassador, the German Ambassador, and Congressman James R Mann (Address by Gilbert H Grosvenor) Vol XXV, pp 677 690, 6 pls, June, 1914 \*
- Honors to Peary (Presentation of Hubbard Medal) Vol XVIII, pp 49 60, 1 pl, Jan., 1907 75c
- Honors to the American Navy (Banquet) Vol XX, pp 77 93, Jan., 1909 \*
- Hospital Heroes Confront the Cattle Vol XXXIII, p 510, June, 1918 50c
- How the World Is Shod Vol XIX, pp 649 660 Sept., 1908 75c
- Ice-Wrapped Continent By Gilbert H Grosvenor Vol XVIII, pp 95 117, 20 pls, 1 half page map, Feb., 1907 \*
- Improvements in the City of Manila Vol XIV, pp 195 197 1 pl, May 1903 \*

**Grosvenor, Gilbert—Continued**

- In Honor of the Army and Aviation (Banquet)  
Vol XXII, pp 267 284, 1 ill, Mar, 1911 \*
- Inoculating the Ground Vol XV, pp 225 228,  
2 ills, May, 1904 \*
- Insignia of the Uniformed Forces of the United  
States By Gilbert Grosvenor and Byron Mc  
Candless Vol XXXII, pp 413 419, 318 ills,  
Oct, 1917. 50c
- Introducing Reindeer into Labrador Vol XVIII,  
p 686, Oct, 1907 \*
- Italian Race By Gilbert Grosvenor Vol  
XXXIII, p 47, Jan, 1918 \*
- John Wesley Powell By Gilbert H Grosvenor  
Vol XIII, pp 392 394, 1 ill, Nov, 1902 75c
- Lake Grosvenor, Alaska, Named for Gilbert  
Grosvenor Vol XL, pp 222 287, ill 284, 288,  
Sept, 1921 50c Vol L, ill 89, July, 1926 \*
- Land of the Best (United States) By Gilbert H  
Grosvenor Vol XXIX, pp 327 430, 71 ills in  
black and white, 33 ills in color, panorama,  
Apr, 1916 50c
- Latest Map of Mexico Text accompanying spe-  
cial map supplement in colors edited by Gil-  
bert Grosvenor Vol XXX, p 88 July, 1916  
50c
- Lessons from Japan Vol XV, pp 221 225, 3  
ills, May, 1904 \*
- Lloyd's Journey Across the Great Pygmy Forest  
(Belgian Congo) Vol X, pp 26 30, Jan,  
1899 \$1 50
- MacMillan Arctic Expedition Sails Vol XLVIII,  
pp 225 226, 3 ills, Aug, 1925 50c
- MacMillan in the Field Vol XLVIII, pp 473  
476, 3 ills, Oct, 1925 \*
- Manchuria and Korea Text accompanying spe-  
cial map supplement edited by Gilbert Grosve-  
nor Vol XV, pp 128 129, 2 half page maps,  
Mar, 1904 \*
- Map of Europe, Including the New Balkan States  
Text accompanying special map supplement  
in colors edited by Gilbert Grosvenor Vol  
XXVI, pp 101 192, Aug, 1914 \*
- Map of the Mediterranean Regions Text accom-  
panying special map supplement in colors  
edited by Gilbert Grosvenor Vol XXIII p  
104, Jan, 1912 \*
- Map of the New Germany Vol XXXV, pp  
545 510, 1 page map, June, 1919 50c
- Map of the North Polar Regions Text accom-  
panying special map supplement in colors  
edited by Gilbert Grosvenor Vol XXIII pp  
454-455, July, 1907 75c
- Map of the Philippines Text accompanying  
special map supplement edited by Gilbert  
Grosvenor Vol XIII, p 31, Jan, 1902 \*
- Marking the Alaskan Boundary Vol XIX, pp  
176 189, 16 ills, Mar, 1908 75c
- Maryland Pilgrimage Visits to Hallowed Shrines  
Recall the Major Role Played by This Pros-  
perous State in the Development of Popular  
Government in America By Gilbert Grosve-  
nor Vol II pp 133 212, 88 ills, special  
map supplement in colors Feb, 1927 50c

**Grosvenor, Gilbert—Continued**

- Memorial to Peary The National Geographic  
Society Dedicates Monument in Arlington Na-  
tional Cemetery to Discoverer of the North  
Pole (Address by Gilbert Grosvenor) Vol.  
XXI, pp 639 645, 4 ills, June, 1922 50c
- Mission of the *Diana* Vol X, p 273, July,  
1899 \*
- Mr Coolidge Becomes a Member of The Society's  
Board of Trustees Vol LV, p 750, June, 1929  
50c
- Mr Roosevelt's "African Game Trails" Vol  
XXI, pp 953 962, 9 ills, Nov, 1910 \*
- Mr Ziegler and the National Geographic So-  
ciety Vol XIV, pp 251 254, June, 1903 75c
- Modern Viking (Amundsen) Vol XVII, pp  
38 40, 1 page map, Jan, 1906 75c
- Most Historic Lands on Earth Vol XXVI, pp  
614 615, 1 page map, Dec, 1914 50c
- Mount Grosvenor, China Vol LVIII, p 415,  
color plates VII, X, Oct, 1930 50c
- Muir Glacier Vol XIV, pp 441-445, 2 ills,  
1 fourth page map, Dec, 1903 \*
- Murman Coast Arctic Gateway for American  
and Allied Expeditionary Forces in Northern  
European Russia Vol XXXV, pp 331-348,  
30 ills, 1 half page map, Apr, 1919 50c
- Nansen Received by Dr Grosvenor Vol LVIII,  
ill 22 July, 1930 50c
- Nansen's 'Farthest North' Eclipsed Vol XI,  
pp 411 413, Oct, 1900 \*
- National Geographic Society (Proceedings) By  
Gilbert Grosvenor Vol X, pp 474 475, Nov,  
1899 \$1 50
- National Geographic Society (Roosevelt's African  
Expedition) Vol XXI, pp 363 370, 5 ills,  
Apr 1910 \*
- National Geographic Society (Jane M Smith  
Bequest) Vol XXIII, p 104, Jan, 1912 \*
- National Geographic Society (Early History of  
The Society) Vol XXIII pp 272 298, 5 ills,  
Mar 1912 \*
- National Geographic Society (Proceedings) Vol  
XXVII p 218, Feb, 1915 50c
- National Geographic Society (Expeditions) Vol  
XXXIII, p 170, Feb, 1918 \*
- National Geographic Society (Dr Grosvenor's  
Work as Editor of The Magazine) Vol XXIII,  
pp 273 298, 5 ills, Mar, 1912 \*
- National Geographic Society (Discovery of the  
North Pole) Vol XXI, p 276, Mar, 1910 \*
- National Geographic Society Alaska Expedition  
Vol XX, pp 581 584, June 1909 75c
- National Geographic Society and Geographic  
Work Vol XX, pp 485 487, May, 1909 75c
- National Geographic Society and Its New Build-  
ing Vol XXV, pp 454 470, 11 ills, Apr,  
1914 \*
- National Geographic Society Completes Its Gifts  
of Big Trees Vol XL pp 83 86, July, 1921 \*
- National Geographic Society Expedition to Mar-  
tinique and St Vincent Vol XIII, pp 153-  
154 2 ills June, 1902 \*



## Grosvenor, Gilbert—Continued

- National Geographic Society Expeditions in New Mexico By Gilbert Grosvenor Vol LVI, p 737, Dec, 1923 \*
- National Geographic Society's Alaskan Expedition Vol CXI, p 370, Apr, 1910 \*
- National Geographic Society's Expedition in the West Indies Vol XIII, pp 209-213, 2 half page maps, June, 1902 \*
- National Geographic Society's Memorial to American Troops' Fountain and Water Supply System Presented to Historic French Town of Cantigny, Where Our Overseas Soldiers Won Their First Victory in the World War Vol XLIV, pp 675-678, 4 illus, Dec, 1923 50c
- National Geographic Society's Notable Year (An nouncement of the Election of Dr Grosvenor as President of The Society) Vol XXXVII, pp 338-345, 2 illus, Apr, 1920 \*
- National Geographic Society's Yunnan Province Expedition By Gilbert Grosvenor Vol XLVII, pp 493-498, 5 illus, Apr, 1925 50c
- National Geographic War Zone Map Text accompanying special map supplement in colors edited by Gilbert Grosvenor Vol XXXVIII, p 494, May, 1918 50c
- Naval Flags of the World By Gilbert Grosvenor and Byron McCandless Vol XXXII, pp 347-369, 211 illus in color, Oct, 1917 50c
- New Cone of Mont Pelée Vol XIV, pp 422-423, 2 illus, Nov, 1903 \*
- New English Province of Northern Nigeria Vol XV, pp 433-442, 9 illus, Nov, 1904 \*
- New Map of Asia Text accompanying special map supplement in colors edited by Gilbert Grosvenor Vol XXXIX, pp 552-570, 17 illus, May, 1921 50c
- New Map of Europe Showing the Boundaries Established by the Peace Conference at Paris and by Subsequent Decisions of the Supreme Council of the Allied and Associated Powers By Ralph A Graves. Text accompanying special map supplement in colors edited by Gilbert Grosvenor Vol XXXIX, pp 157-177, 18 illus, Feb, 1921 50c
- New National Geographic Society Expedition (Chaco Canyon) Vol XXXIX, pp 637-643, 7 illus, June, 1921 50c
- Next International Geographical Congress to be Held in Washington By Gilbert H Grosvenor Vol XII, pp 351-357, 4 illus, Oct, 1901, 75c
- Nicaragua Largest of Central American Republics Vol LI pp 370-378, 15 illus, Mar, 1927 50c
- No Man's Land—Spitzbergen Vol XLIII, pp 455-458, July, 1907 75c
- North Polar Map Compiled by Gilbert Grosvenor Vol XX, p 815, Oct, 1903 75c
- North Pole (Appointment of Committee to Consider Claims of Peary and Cook). Vol XX, pp 921-922 Nov, 1909 75c
- North Pole (Resolutions of The Society Acknowledging Peary's Discovery) Vol XX, pp 1009-1009, Nov, 1909 75c
- Notes on Macedonia Vol XIX, pp 790-802, 13 illus, 1 page map, Nov., 1908 \*

## Grosvenor, Gilbert—Continued

- Notes on Panama and Colombia Vol XIV, pp 438-466, 12 illus, Dec, 1903 \*
- Notes on Turbulent Nicaragua Vol XX, pp 1102-1116, 13 illus, 1 page map, Dec, 1909 \*
- Office of the Editor Vol XXV, 411-460, Apr, 1914 \*
- One Hundred British Seaports Vol XXXI, pp 84-94, 10 illus, 1 page map, Jan, 1917 50c
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- Our Foreign Born Citizens Vol XXXI, pp 95-130, 36 illus, 1 page map, 8 diagrams, Feb, 1917. 50c
- Our Heralds of Storm and Flood (U S Weather Bureau) By Gilbert H Grosvenor Vol XVIII, pp 586-601, 15 illus, 1 chart, Sept, 1907 \*
- Our Immigration During 1904 Vol XVI, pp 13-27, 6 illus, 2 charts, Jan, 1905 \*
- Our Map of North America Text accompanying special map supplement in colors edited by Gilbert Grosvenor Vol XLV, p 580 May 1924 50c
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- Our Map of the United States Text accompanying special map supplement in colors edited by Gilbert Grosvenor Vol XLIII p 460, Apr, 1923 50c
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- Our Policemen of the Air Vol XXIV, p 699, June, 1913 50c
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- Peary to Try Again Vol XLIII p 281, Apr, 1907 75c
- Peary's Explorations in the Far North By Gilbert Grosvenor Vol XXXVII, pp 318-327 3 illus, Apr., 1920 \*

**Grosvenor Gilbert—Continued**

- Peary's Polar Expedition Vol XIV p 447  
June 1908 75c
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357 361 2 Ills Oct 1901 75c
- Peary's Work in 1901 1902 By Gilbert H  
Grosvenor Vol XIII pp 384 386 Oct 1902  
75c
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bert Grosvenor and Byron McCandless Vol  
XXII pp 399-403 7c Ills in color Oct  
1917 50c
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1929 50c
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LV p 327 Mar 1929 50c
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XXII p 612 July 1911 \*
- Alligators Bg St Augustine Florida Vol  
XXII p 611 July 1911 \*
- Alligators Young St Augustine Florida Vol  
XXII p 610 July 1911 \*
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Hawaii Vol XLV p 171 Feb 1924 50c
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Maul Vol XLV p 156 Feb 1924 50c
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XXXVIII p 57 (upper) July 1920 50c
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XXXVIII p 36 (lower) July 1920 50c
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Apr 1928 50c
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XLII p 158 Aug 1922 \*
- Bartlett (Capt) Sam Vol XXII p 643 Nov  
1906 \*
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Nov 1914 50c
- Bazaar Moscow Russia Vol XXVI p 462  
Nov 1914 50c
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p 250 Mar 1918 50c
- Belson Breakthrough Baddeck Nova Scotia Summer  
Home of Alexander Graham Bell Vol XLI  
p 238 Mar 1922 50c
- Bell Alexander Graham and Alexander Melville  
Vol XLI p 233 Mar 1922 50c
- Bell Alexander Graham and Mrs Alexander  
Graham at Baddeck Nova Scotia Vol  
XXXVIII p 41 (lower) July 1920 50c
- Bell Alexander Graham and Mrs Alexander  
Graham with Daughters and Grandchildren  
at Baddeck Nova Scotia Vol XII p 236  
Mar 1922 50c
- Bell Alexander Graham and Three Grandchildren  
Cape Breton Nova Scotia Vol XXXVIII  
p 59 July 1920 50c
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XXVI p 474 (lower) Nov 1914 50c
- Blood Letting by Marrakech Surgeons Morocco  
Vol LXI p 289 Mar 1932 50c
- Boat Submerged Hydroplane Type Dr Bells  
"HD-4" Cape Breton Nova Scotia Vol  
XXXVIII pp 47-49 July 1920 50c

**Grosvenor Gilbert—Continued**

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- Boats Driven by Aerial Propellers BB Vol  
XVIII p 671 Oct 1907 \*
- Bou Jeloud Gate of Morocco Vol LXI p 265  
Mar 1932 50c
- Boulecet Harbor Cape Breton Nova Scotia  
Vol XXXVIII p 54 (lower) July 1920 50c
- Boys Nizhni Novgorod Russia Vol XXVI p  
492 (left) Nov 1914 50c
- Bras d'Or Lakes Nova Scotia Vol XXXVIII  
p 36 (upper) July 1920 50c
- Bras d'Or Lakes Nova Scotia Vol XXIX p  
296 Mar 1916 50c
- Bridegroom Nizhni Novgorod Russia Vol XXVI  
p 478 (right) Nov 1914 50c
- Bridgman Herbert L Vol XVII p 643 Nov  
1906 \*
- Bullock Team San José Costa Rica Vol LXII  
p 563 (lower) May 1928 50c
- Cab Driver Nizhni Novgorod Russia Vol  
XXXIII p 251 Mar 1918 50c
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1929 50c
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sia Vol XXVI pp 400 451 Nov 1914 50c
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1929 50c
- Cape North Cape Breton Nova Scotia Vol  
XXXVIII p 57 (lower) July 1920 50c
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480 (upper and lower) Nov 1914 50c
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XXVI pp 441 469 Nov 1914 50c
- Children American Vol XXVI p 158 Feb  
1917 50c
- Children Andalusian Spain Vol LV p 320  
Mar 1929 50c
- Children Moscow Russia Vol XXVI p 447  
Nov 1914 50c
- Circassians, Moscow Russia Vol XXVI p  
487 Nov 1914 50c
- Coachman Moscow Russia Vol XXVI p 464  
(left) Nov 1914 50c
- Codfish Cape Breton Nova Scotia Vol XXXVIII  
p 56 (lower) July 1920 50c
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LI p 138 Feb 1927 50c
- Cypress Trees Garden of Palacio de Generalife  
near Alhambra Spain Vol LV pp 328  
329 Mar 1929 50c
- Edinburgh Royal High School, Scotland Vol  
XLI p 231 Mar 1922 50c
- El Hassan Chief of Zafan Tribe Morocco Vol  
LXI p 20 Mar 1932 50c
- Fleets Harbor Bras d'Or Lakes Cape Breton  
Nova Scotia Vol XXXVIII p 54 (upper)  
July 1920 50c
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Vol LV p 251 Aug 1931 50c
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37 Mar 1917 50c
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Spain Vol IV p 333 Mar 1929 50c

*Grosvener, Gilbert—Continued*

Photographs by Gilbert Grosvener

Fern Birds Nest Hawaii Vol XIV p 126  
Feb 1924 50cFlame Tree Honolulu Hawaii Vol XIV, plate  
VIII Feb, 1924 50cFortress on the Fringe of the Grand Atlas  
Morocco Vol LXI p 286 Mar 1932 50cFortune Teller with Iet Nizhni Novgorod Rus-  
sia Vol XXVI p 497 Nov., 1914 70cFuneral Moscow Russia Vol XXVI p 151  
Nov 1914 50cGeneral Sherman Tree Sequoia National Park  
California Vol XXIX p 414 Apr 1916 50cGirl Moscow Russia with Glimpse of the Uni-  
versity Vol XXVI p 492 (right) Nov  
1914 50cGlacier National Park Montana Vol XXXVIII  
p 484 June 1920 50cGota Canal Sweden Vol LIV p 454 Oct  
1928 50cGrace Harwar Tull Rigged at Sea Vol LV p  
218 Feb 1931 50cGrace Harwar, Overhauled by a Lifter Vol  
LIV p 219 Feb 1931 50cGypsies Moscow Russia Vol XXVI p 491  
Nov 1914 50cHaleakala World's Greatest Extinct Crater  
Hawaii Vol XIV plate VIII Feb 1924 50cHaleakala Crater Hawaii Floor and Two Dead  
Cones Vol XIV plate IX Feb 1924 50cHaleakala Crater Hawaii Small Corner of Vol  
XIV p 147 Feb 1924 50cHelsingfors Harbor Finland Vol XXVI p 510  
Nov 1914 50cHoughton Michigan Wharf Scene Vol XXIV  
p 370 Apr 1916 50cIberian Chapel Moscow Russia Vol XXVI p  
467 Nov 1914 50cKhenifra Morocco Vol LXI p 269 Mar  
1932 50cKhenifra Morocco Castle at Vol LXI p 268  
Mar 1932 50cKite Hauled Down at Cape Breton Nova Scotia  
Vol XXXVIII p 45 July 1920 50cKite Man Lifting Over Bras d'Or Lakes Nova  
Scotia Vol XXXVIII p 44 July 1920 50cKite Used in Early Aviation Vol XXXVIII  
p 38 July 1920 50c Vol LIV p 230 Aug  
1927 50cKites Tetrahedral of Alexander Graham Bell  
Vol LVIII p 24 Jan 1907 75cKoa Tree Hawaii National Park. Vol XLV p  
144 Feb., 1924 50cKremlin Moscow Russia Vol L p 570 Nov  
1926 50cKremlin Moscow Russia Battlements Vol  
XXVI p 430 Nov 1914 50cKremlin Moscow Russia Bells Vol XXVI  
pp 438 439 Nov 1914 50cKremlin Moscow Russia Boys Visiting Vol  
XXVI p 488 Nov 1914 50cKremlin Moscow Russia Guards Vol XXVI  
p 444 (right) Nov 1914 50c*Grosvener, Gilbert—Continued*

Photographs by Gilbert Grosvener

Kremlin Moscow Russia Inside Redeemer Gate  
Vol XXVI p 434 Nov., 1914 50cKremlin Moscow Russia Redeemer Gate Vol  
XXVI pp 432 433 Nov., 1914 50cKremlin Moscow Russia Russian Mothers Visit  
Vol XXVI p 446 Nov 1914 50cKremlin Moscow Russia with Cathedral of Our  
Saviour and Redeemer Gate Vol XXVI p  
468 Nov 1914 50cLatalua Roadstead, Island of Maui Vol XLV,  
p 165 Feb 1924 50cLava River Bel where flow passed from Hale-  
mauana Hawaii Vol XIV p 236 Feb  
1924 50cLoa Lava Slopes of Hawaii Vol XIV p 189  
Feb 1924 50cMcAskine Angus Boat and Waistcoat of Cape  
Breton's Giant Vol XXXVIII p 55 July  
1920 50cMálaga to Granada Road Spain Vol IV, p  
810 Mar 1929 50cMauna Loa Hawaii Dead Cones on Vol XLV,  
p 208 Feb 1924 50cMauna Loa Hawaii Rest House on Vol XLV  
p 182 Feb 1924 50cMauna Loa Hawaii Slopes of Vol XLV, p  
201 Feb 1924 50cMedals of Service Russian Grand Boys Vol  
XXVI p 475 Nov 1914 50cMilkmald Stockholm Sweden Vol XXIV p 46  
Jan 1916 50cMonastery of Miracles Moscow Russia Vol  
XXVI p 441 Nov 1914 50cMorrison Family Nine Sons of St Ann's Cape  
Breton Nova Scotia Vol XXVI p 508  
June 1910 50cMorrison Family Parents and Nine Sons of Bad  
deck Nova Scotia Vol XXIV p 220 Mar  
1916 50cMorro Castle Havana Cuba Vol LII p 497  
Oct 1907 50cMorro Castle Havana Cuba Vol LVII p 582  
May 1930 50cMoujik Nizhni Novgorod Russia Vol XXVI  
p 479 (left) Nov 1914 50cNuevitas Cuba Seaplane Docks Vol LXIII p  
630 May 1933 50cSun Moscow Russia Vol XXVI p 457 (right)  
Nov 1914 50cOlympic Forest Washington Vol XXIX p 421  
Apr 1916 50cPanochoe Region Hawaii Vol XLV p 210  
Feb 1924 50cPeary (Rear Adm.) Robert E Vol XXVII p 639  
Nov 1906 50cPeasant Nizhni Novgorod Russia Vol XXVI  
p 478 (left) Nov 1914 50cPeasant Woman Nizhni Novgorod Russia Vol  
XXVI p 479 (middle) Nov 1914 50cPeasant Woman and Child Nizhni Novgorod  
Russia Vol XXVI p 479 (right) Nov 1914  
50c

**Grosvenor, Gilbert—Continued****Photographs by Gilbert Grosvenor:**

- Peddler of Pictures, Russia Vol XXVI, p 457 (left), Nov, 1914 50c
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- Pigeons, Feeding in Red Square, Moscow, Russia Vol XXVI, p 452, Nov, 1914 50c.
- Policeman, Nizhni Novgorod, Russia Vol XXXIII, p 254, Mar, 1918 50c
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- Priest and Wife, Moscow, Russia Vol XXVI, p 444 (left), Nov, 1914 50c
- Priest and Wife and Two Children, Russia Vol XXVI, p 463, Nov, 1914 50c
- Priests, Russia Vol XXVI, p 465, Nov, 1914 50c
- Prisoner, Nizhni Novgorod Russia Vol XXVI, p 476 (lower), Nov, 1914 50c
- Puna, Hawaii, Beach Vol XLV, p 148 (upper), Feb, 1924 50c
- Puna, Hawaii, Lava Rock Hurled above the Cliff Vol XLV, p 148 (lower), Feb, 1924 50c
- Railway Station, Nizhni Novgorod, Russia Vol XXVI, p 474, Nov, 1914 50c
- Resurrection Church, Petrograd, Russia Vol XXVI, p 499, Nov, 1914 50c
- Russian Group Vol XXVI, p 490, Nov, 1914 50c
- Russian Group in Street Vol XXVI, p 235 (right), Mar, 1917 50c
- Russian Maklog Sign of the Cross Vol XXVI, p 443, Nov, 1914 50c
- Russian, Young Moscow, Russia Vol XXVI, p 464 (right), Nov, 1914 50c
- Saba, West Indies, Volcanic Cone Vol LIII, p 583, May, 1928 50c
- St Ann's, Bay of, Cape Breton, Nova Scotia Vol XXXVIII, p 52, July, 1920 50c
- St Basil's Cathedral, Moscow, Russia Vol XXVI, p 493, Nov, 1914 50c
- St Isaac's Golden Dome, Petrograd, Russia Vol XXVI, p 485, Nov, 1914 50c
- St Kitts, West Indies Vol LIII, p 582, May, 1928 50c
- St Nicholas Lutheran Church, Helsingfors, Finland Vol XXVI, p 511, Nov, 1914 50c
- Saloon, Vodka Nizhni Novgorod Russia Vol XXVI, p 481, Nov, 1914 50c
- San Pedro de Macoris, Dominican Republic, Refueling Clipper Ship Vol LXIII, p 629 Mar, 1933 \*
- Sao Paulo Brazil Market Place Vol LVIII, p 770 Dec, 1930 \*
- Schoolboys and Priest, Moscow, Russia Vol XXVI, p 448 Nov, 1914 50c

**Grosvenor, Gilbert—Continued****Photographs by Gilbert Grosvenor:**

- Schoolboys, Costa Rica Vol LIII, p 563 (upper), May, 1928 50c
- Schoolboys, Russia Vol XXVI, p 459, Nov, 1914 50c
- Schoolmaster and Boys, Moscow, Russia Vol XXXI, p 235 (left), Mar, 1917 50c
- Sequoia National Park, California Vol XXXI, p 8, Jan, 1917 50c
- Sheep, Twin Bearing, Cape Breton, Nova Scotia Vol XXXVIII, p 41 (upper), July, 1920 50c
- Shops, Selling Icons, Moscow, Russia Vol XXVI, p 461, Nov, 1914 50c
- Shrine, Nizhni Novgorod, Russia Vol XXVI, p 477, Nov, 1914 50c.
- Shrines, Moscow, Russia Vol XXVI, pp 427, 458, 466, Nov, 1914 50c
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- Statue, Trial, in front of University, Nizhni Novgorod, Russia Vol XXVI, p 424 (upper), Nov, 1914 50c
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- Straw Carried by Donkeys, Spain Vol LV, p 333, Mar, 1929 50c
- Street Scene, Moscow, Russia Vol XXXI, p 225 Mar, 1917 50c
- Tatar Merchant, Nizhni Novgorod Fair, Russia Vol XXVI, p 475, Nov, 1914 50c
- Tent, Chief El Hassans, Morocco Vol LXI, p 271, Mar, 1932 50c
- Theatre Great Imperial, Moscow, Russia Vol L, p 581, Nov, 1926 \*
- Tower Belian Bhreagh, Baddeck, Nova Scotia Vol XXXVIII, p 43, July, 1920 50c
- Trout Pool near Cheticamp Cape Breton, Nova Scotia Vol XXXVIII, p 56 (upper), July, 1920 50c
- Tuna Fish, Cape Breton, Nova Scotia Vol XLIV, p 592, Dec, 1923 50c
- Volcanoes, Costa Rica Vol LIII, p 562, May, 1928 50c
- Volga River at Nizhni Novgorod Russia Vol XXVI, p 472, Nov, 1914 50c
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- International Millonth Map of the World** By Bailey Willis. Vol. XXI, pp. 125-132, 1 diagram, Feb., 1910 \*
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- Map of Europe, Including the New Balkan States: Text accompanying special map supplement in colors** Vol. XXVI, pp. 191-192, Aug., 1914 \*
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See also Editorial Department page 277

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Admiral Byrd Receives New Honor from The Society (Representation by Resident Honorary of Special Gold Medal) Vol. LXIII pp 278-284 4 Ills. Aug., 1930 50c

Achievements of Byrd Antarctic Expedition 231 737

Bumstead sun-compass praised by Byrd 733

Byrd Antarctic Expedition aided by The Society 232

Aeronautics Promoted by The Society Vol. XLVI p 100 July 1914 50c

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Aerial photography sponsored by The Society 240

Articles on aviation published in The Magazine 233-234 240-242

Paquet celebrating progress in aviation 233

Bell, Alexander Graham Kite experiments of 233 Ill. 735 736

Bumstead sun-compass Byrd's use of 738 Ill. 242

Expeditions aided by The Society 734

Hubbard Gold Medals awarded Comdr. Byrd and Floyd Bennett 738 Ill. 739

Hubbard Gold Medal awarded Lindbergh 742-743 Ill. 754

Pearcy's prophecy regarding aviation 234

Air Travel by The Society's Staff Vol. LXIII pp 587-678 May 1933 \*

First Airship Flight Around the World Dr. Hugo Eckener Tells of an Epochal Geographic Achievement upon the Occasion of the Bestowal of the National Geographic Society's Special Gold Medal. Vol. LVIII pp 663-688 37 Ills., June 1930 50c

Four aviators awarded Society's medals 660

Presentation of medal to Dr. Eckener by Dr. Grosvenor 653-655

Service of aviation to geography 660

In Honor of the Army and Aviation Vol. XXII pp 26 784 1 Ill., Mar., 1911 \*

Appreciation of S. P. Langley 779

Aviation in Germany 770-771 Ill. 771

Importance of aviation in warfare 778-780

Wright Wilbur Address by 779-781

## National Geographic Society

## Aeronautics—Continued

- President Coolidge Bestows Lindbergh Award: The National Geographic Society's Hubbard Medal Is Presented to Aviator Before the Most Notable Gathering in the History of Washington Vol LIII, pp 132-140, 4 illus, Jan, 1928. 50c
- Aviation aided by The Society. . . . . 135
- Aviators at ceremony . . . . . 132
- Contributions of U S to aviation. . . . . 138
- Lindbergh's achievements . . . . . 134-135
- Motion picture of aviation history. . . . . 139-140

- Society Awards Hubbard Medal to Anne Morrow Lindbergh Vol LXX, pp 791-794, 4 illus, June, 1934 50c
- Aerial photography sponsored by The Society . . . . . 704
- Aviation sponsored by The Society . . . . . 701
- Tribute to Mrs Lindbergh by Dr. Grosvenor . . . . . 791-792

- Society's Special Medal Awarded to Amelia Earhart First Woman to Receive Geographic Distinction at Brilliant Ceremony in the National Capital Vol LXII, pp 358-367, 7 illus, Sept, 1932 \*
- Aviation sponsored by The Society. . . . . 362
- Earhart, Amelia. Account of trans Atlantic flight. . . . . 358, 363-367; 2 illus
- Tribute to Miss Earhart by Dr Grosvenor 359
- Tribute to Miss Earhart by President Hoover . . . . . 362-363

See also *Expeditions*

- Aquariums.** Vol LXV, III 107, Jan, 1934 50c

## Banquets

- Announcement of Annual Banquet, December 20, 1905 Vol XVI, p 570, Dec., 1905 75c
- Guests . . . . . 570
- Announcement of Annual Banquet Vol XVII, p 714, Dec., 1906 \*
- Guests . . . . . 714
- Announcement of Annual Banquet Vol XIX, p 805, Nov., 1908\*, p 888, Dec., 1908 75c
- Annual Banquet, January 26, 1912 Vol XXIII pp 272-298 5 illus, Mar., 1912 \*
- American Red Cross . . . . . 288-290
- . . . . . -276

- . . . . . 287, 290, 292, 293
- Boardman, Mabel Speech by . . . . . 288-290
- Bryce James Speech by . . . . . 276-280
- Date-growing experiments in America . . . . . 293
- Expeditions of The Society . . . . . 275
- Gannett Henry Speech by . . . . . 272
- Geography of food . . . . . 283
- Growth of The Society . . . . . 272 274
- Guests . . . . . 272, 293-298
- Hammond, (Mrs) John Hays Speech by . . . . . 292-293
- Importance of trigonometrical surveys . . . . . 284 287
- Kahn, (Mirza) Ali Kuli Speech by . . . . . 283-282
- Message from President Taft . . . . . 282

## National Geographic Society

## Banquets—Continued

## Annual Banquet—Continued

- Ntobe, (Dr) Inazu: Speech by . . . . . 290-292
- Progress of The Magazine under its Editor, Gilbert H Grosvenor. . . . . 274
- Tittmann, O H. Speech by. . . . . 294, 287
- Wiley, (Dr) Harvey W.. Speech by . . . . . 282-284

## Annual Banquet of the National Geographic Society. Vol XVII, pp 22-37, Jan, 1906 75c.

- Achievements of the American press. . . . . 29-32
- Champ, W. S. Speech by. . . . . 35-36
- Committee for banquet. . . . . 37
- Definition of geography. . . . . 24
- Flala, Anthony. Speech by. . . . . 32-34
- Greely, (Brig Gen) A W Speech by. . . . . 36
- Griscom, Floyd C.: Speech by . . . . . 27-29
- Guests . . . . . 22-23, 36-37
- History of The Society. . . . . 23-24
- Newspaper account of dinner. . . . . 22-23
- Scott, Charles F Speech by. . . . . 29-32
- Taft, William H Speech by . . . . . 25-26
- Taft, (Mr and Mrs) William H: Guests of honor. . . . . 22
- Toast in memory of Gardiner Greene Hubbard . . . . . 24
- Toast to the President and the flag . . . . . 25-26
- Toastmaster (Willis L Moore) . . . . . 23-25, 26-27, 29, 32, 34-35
- Wellman, Walter Speech by. . . . . 36
- Ziegler Polar Expedition . . . . . 32-36

## Discovery of the North Pole (Presentation of Special Gold Medal to Peary by Willis L Moore, and Hubbard Gold Medal to Bartlett by James Bryce) Vol XXI, pp 63-82, Jan., 1910 \*

- Abruzzi, Duke of the Message from . . . . . 64
- Barrett, John Speech by . . . . . 79
- Bartlett, (Capt) Robert A Acceptance speech by . . . . . 77-78
- Bryce, James Presentation speech by . . . . . 75-77
- Carnegie, Andrew Speech by . . . . . 68-69
- Cannon, Joseph Speech by . . . . . 66-67
- Chester, (Rear Adm) Colby M Speech by . . . . . 69-73
- Guests . . . . . 63, 79-82
- History of Peary's explorations . . . . . 69-73
- Hubbard (Gen) Thomas H Speech by . . . . . 78-79
- Hubbard Gold Medal awarded to Grove Karl Gilbert . . . . . 63, 75
- Hubbard Gold Medal presented to Capt Robert A Bartlett by James Bryce . . . . . 63 75-77
- Jusserand J J Speech by . . . . . 64-66
- Medals received by Peary . . . . . 73
- Moore, Willis L. Presentation speech by . . . . . 73-74
- Peary, Robert E Acceptance speech by . . . . . 74-75
- Peary Arctic Club . . . . . 78-79
- Planches Baron Mayor des Speech by . . . . . 64
- Purpose and organization of The Society . . . . . 67-68
- Roosevelt, Theodore Message from . . . . . 63
- Special Gold Medal presented to Peary by Willis L Moore . . . . . 63 74-75
- Toastmaster (Willis L Moore) . . . . . 63, 66-69 73-75, 79-79

## National Geographic Society

## Banquets—Continued

Honors for Amundsen (Presentation of Hubbard Gold Medal by Charles W. Fairbanks) Vol. XX pp. 50-70	13 Ills
Jan. 1908	75c
Amundsen Roald Speech by	57
Bryce James Speech by	6 84
Burton Theodore Speech by	66 68
Fairbanks Charles W. Presentation speech by	50-57
Forestry in America	64 65
Goulden Harvey Speech by	69 70
Great Lakes	69 70
Guests	55 57 74 76
Importance of geography	67 64
Jusserand J. J. Speech by	57 61
McGee W. J. Speech by	69
Mississippi River	66-68
Moore J. Hampton Speech by	72-74
Norse explorations	58
Rivers of the Atlantic coast	7 74
Toastmaster (Willis L. Moore)	55 57
	61 67 64 68-69 70

Honors to Amundsen and Peary (Presentation of Special Gold Medal to Amundsen by Peary) Vol. XXIV pp. 113-130	
Jan. 1913 *	
Amundsen Roald Speech of acceptance	179 130

Award of Grant Squires Prize to F. H. King	110
Bingham Hiram Account of Peruvian Expedition	116-117
Bryce James Speech and farewell	117 119
Buildings of The Society	111 126
Election of Jean Charcot as Honorary Member	10 124-125
Fields of exploration	118 119
Finances	115
Fisher Walter L. Speech on Alaska and Hawaii	1 5 127
Gannett Henry Speech by	115
Guests	113
Jusserand J. J. Speech by	120 125
Memberships	113 115
Need of instruction in geography	121 122
Photograph of distinguished guests and officers of The Society	114
Polar exploration	127 130
Presentation of Special Gold Medal to Amundsen by Peary	120 Ill 120 128
Redfield William C. Speech by	1 1 127
Toastmaster (Robert D. Peary)	115
	117 119 120 125 127 129 130

Honors to Colonel Goethals (The Presentation by President Woodrow Wilson of the National Geographic Society Special Gold Medal Vol. XXV pp. 677-690 6 Ills June 1914 *)	
Announcement of the election of J. J. Jusserand as Honorary Member	679 688
Bernstorff Johann Heinrich Count von Speech by	684
Goethals (Col.) George W. Acceptance speech by	683-684
Grosvenor Gilbert Address by	679-680
Guests	677
Jusserand J. J. Speech by	688 690
Magazine circulation	679

## National Geographic Society

## Banquets—Continued

Honors to Colonel Goethals—Continued	
Mann James R. Speech by	687
Memberships statistics	679
Panama Canal	679 680 683 687
Toastmaster (William Jennings Bryan)	679 680 684 687 688 690
Wilson Woodrow Presentation speech by	679 680 683

Honors to Leary (Presentation of Hubbard Gold Medal by President Roosevelt) Vol. XXVIII pp. 49-60 1 Ill Jan. 1907 75c	
Abruzzi Duke of the Tribute to	50-51
Achievements of members	50
Bell Alexander Graham Speech by	63-64
Leonaparte Charles J. Speech by	51 57
Committee for banquet	58
Cook Frederick A. Speech by	51 56
Expeditions by Frederick A. Cook	54-56
Guests	49 58 60
History of The Society	49
Honorary Members	51
Peary Robert E. Speeches by	50 57-58
Planches Baron Mayor des Speech by	50
Roosevelt Theodore Presentation speech by	50-57
Toastmaster (Willis L. Moore)	49-50
	51 53 56
U. S. Navy	51 53

Honors to the American Navy Vol. XX pp. 77-95 Jan. 1909 *	
Achievements of The Society	77
Boardman Mabel Speech by	84 86
Curtis William Eleroy Speech by	87 84
Evans (Rear Adm.) Robley D. Speech by	81 93
Exploration and research promoted by the Navy	79-80 90
Fairbanks Charles W. Speech by	77 78
Geographic research	89-90
Greely (Maj. Gen.) A. W. Speech by	80 90
Guests	93 95
Newberry Truman H. Speech by	79 81
Theme of speeches	77
Toastmaster (Willis L. Moore)	77 78
	80 84 86 89 91
Weeks John M. Speech by	86-87
Work of the Red Cross	84 86

In Honor of the Army and Aviation Vol. XXII pp. 267-284 1 Ill Mar. 1911 *	
Announcement of the election of President Taft as Honorary Member	267 270
Appreciation of S. P. Langley	279
Aviation in Germany	270-271
Barra Francisco Leon de la Speech by	272 273
Bernstorff Johann Heinrich Count von Speech by	270-271
Bryce James Speech by	275 276
Commercial routes of the world	27 273
Committee for banquet	261
Fields of exploration	273-276
Greely (Maj. Gen.) A. W. Speech by	278-279
Guests	267 281 81
Introduction of daisies (vegetable)	267
	11 268 269
Taft William Howard Speech by	278 277
Toastmaster (Gen. John M. Wilson)	268
	270-271 275-279

## National Geographic Society

## Banquets—Continued

- In Honor of the Army and Aviation—Continued  
 Wood (Maj Gen) Leonard Speech by 278  
 Work of The Society 267  
 Wright Wilbur Speech by 279-281
- Voice Voyages by the National Geographic Society A Tribute to the Geographical Achievements of the Telephone Vol XXIX 15 Ills 1 chart Mar 1916 50c
- Bell Alexander Graham Speech by 315-316  
 Bell Alexander Graham Telephone Invented by 296 297 306 310 316 318 320  
 Bethell Union Noble Speech by 319-320  
 Carty John J Speech by 316  
 Carty John J Telephone demonstration by 297-302  
 Daniels Josephus Speech by 300-326  
 Geographical census of telephones 320-321  
 Geographical importance of telephone 310 317  
 Guests 296-297 Ill 298  
 History of the telephone and telegraph 306-310 315-318 324  
 Long distance telephone demonstration 297-302 map 297 Ill 301  
 Setting telephone poles Ill 307  
 Speakers table Ill 298  
 Telephone Building Buffalo New York Ill 308  
 Telephone Building El Paso Texas Ill 303  
 Telephone cables Ill 311  
 Toastmaster (Franklin K Lane) 305-306  
 U S Navy wireless system 324 326  
 Wall Theodore N Speech by 306-315  
 Wireless telephone demonstration 302-305

## Bequests:

- Fund Bequeathed by Mary C Burr Vol LXV p 676 May 1934 50c
- James C Horgan Bequest Vol XXXVII p 338 Apr 1920 \*
- Jane M Smith Bequest for Life Member ships Vol XXIII p 104 Jan 1912 \*  
 Vol XXXVIII pp 342-343 Apr 1920 \*
- Recent Bequests by Members of the National Geographic Society Vol XLIX p 474 Apr 1926 \*
- Designated use of funds 474  
 Dudley George True Fund given by 474  
 White Abbie M Fund given by 474

## Board of Managers:

- Amendment of Bylaws Vol XVI p 53 Jan 1905 \*
- Announcement of the Deaths of Brig Gen. John M Wilson Rear Adm John E Pillsbury and Rear Adm Robert D Peary Vol XXXVIII p 345 Apr 1920 \*
- Appreciation of Marcus Baker Vol XV pp 40-43 1 Ill Jan 1904 \*
- Claims of Peary and Cook Referred to Committee on Research Vol XX, pp 921 922 Nov 1909 75c
- Election of Israel C Russell Vol XIII p 118-119 1 Ill June 1902 \*
- Election of John Oliver La Gorce Vol XXXVII p 345 Apr 1920 \*

## National Geographic Society

## Board of Managers—Continued

- Election of Members Vol XVI p 87 Feb 1905 \* Vol XVI p 88 Jan 1910 \*  
 Vol XXII p 211 Feb 1911 \*
- Election of O H Tittmann as President and John E Pillsbury as Vice-President of The Society Vol XXXII p 218 Feb 1915 50c
- National Geographic Society in War Time By Maj Gen A W Greely Vol XXXIII pp 263 273 5 Ills Apr 1918 50c
- Committee to present Honorary Membership to President Wilson 369
- Election of Woodrow Wilson as Honorary Member 369
- Resolution in memory of Col Henry F Blount 371
- William Howard Taft elected to the Board of Managers 371
- North Pole Vol XX pp 1008 1009 Nov 1909 75c
- Committee appointed to consider claims of Cook 1009
- Report of committee on claims of Cook and Peary 1008
- Resolution acknowledging Peary's discovery 1008
- Resolution awarding medals to Peary and Bartlett 1008 1009
- Photograph of Board of Managers Vol XXIV p 114 Jan 1913 \*
- Research Fund Established Vol XX p 486 May 1909 75c
- Resolution Authorizing Purchase of Big Trees Vol XXXI p 5 Jan 1917 50c
- Resolution Concerning Wellman Polar Expedition Vol XVII p 205 Apr 1906 \*
- Resolution Subscribing to Peary Expedition of 1907 1908 Vol XVIII p 281 Apr 1907 75c
- Resolutions Concerning Medals Vol XX p 487 May 1909 75c
- Resolution in Memory of Henry Gannett Vol XXVI pp 609-613 Dec 1914 50c
- Resolution Withdrawing Subscription to South Polar Expedition of Peary Arctic Club Vol XXI p 365 Apr 1910 \*
- Tribute of Respect to the Memory of Mrs. Gardner Greene Hubbard Vol XX p 1008 Nov 1909 75c
- See also Board of Trustees
- Board of Trustees:
- Coolidge Calvin Election of Vol LV p 750 June 1929 50c
- Members of Board Vol LXI p 403 Apr 1927 50c Vol LXV pp 792 793 June 1934 50c
- Peary Robert E Election of Vol XLII p 643 June 1922 50c
- Photograph of Members of Board of Trustees June 1929 Vol LVIII Ill 392 May 1930 50c



## National Geographic Society

## Board of Trustees—Continued

Photograph of the Board of Trustees Decem-  
ber 14 1921 Vol. LXI p 240 Mar.,  
1922 50c

Proposed Amendment to By laws Regarding  
Trustees Vol. XXXVII p 292 Mar  
1920 50c.

Taft William Howard Birthplace of, Vol.  
LXI III 591 May 1930 50c

Taft William Howard Funeral of Vol  
LVII III 597 May 1930 50c

See also *Board of Managers and Introduction*  
to this Index pp 1 16

## Buildings:

Air-Conditioning Plant Vol. LXIII p 574  
May 1933 \*

Aquariums Vol. LXV III 107 Jan 1934  
50c

Explorers Hall Vol. LXV pp 791 794  
June 1934 50c

Funeral Cortège of William Howard Taft  
Passes The Society's Headquarters Vol.  
LVII III 597 May 1930 50c

Home of the National Geographic Society  
Vol. XVI p 342 July 1905 75c  
Deed of trust for Hubbard Memorial Hall 342  
Resolution of thanks to donors of build-  
ing 342

Hubbard Memorial Building Vol. LXIII pp  
174-176, May 1902 \*  
Contents of cornerstone 174-176  
Dedication to Gardiner Greene Hubbard 175  
Laying of cornerstone 174-175

Hubbard Memorial Hall, Vol. LXVII p 74  
Jan 1906 75c

Location of Headquarters and Annex Vol.  
XLI air view 572, May 1902 50c Vol  
XLII air view 390 April, 1903 50c p  
639 air view 586 June 1903 50c

Map Department, Vol. LXIII III 651  
June 1933 \*

National Geographic Society and Its New  
Building Vol. XXV pp 454-470 11 III  
Apr., 1914 \*

Architecture and plan	459
Correspondence	465
Editorial rooms	459 III 460 461
Exterior	III 454
General office	III 456
Hubbard Memorial Hall	457 III 461 464
Index department	III 463
Library	459
Mail room	III 462

New Building of The Society Vol. LX III  
544 Nov., 1931 50c Vol. LXV III 74  
June 1934 50c. III 431 Oct., 1934 50c

New Home of the National Geographic So-  
ciety Vol. XV pp 176 181 Apr., 1904 \*  
Entrance hall III 178  
Exterior III 177  
Fireplace III 180  
Library and meeting hall III 179 181  
Opening 176

Opening of Hubbard Memorial Hall Vol  
XIV p 217 May 1901 \*

## National Geographic Society

## Buildings—Continued

Photographic Laboratory Vol. LXIV III  
277 Sept 1933 50c.

Photographs of Hubbard Memorial Hall and  
New Office Building Vol. XXIV p 126  
Jan., 1913 \* Vol. XLIII III 669 670  
June 1923 50c Vol. LIII p 133 Jan.,  
1908 50c

Plans for Hubbard Memorial Hall Vol. XI  
pp 406-407 Oct 1900 \*

Plans for New Building Vol. XXIV pp  
251 252 Feb 1913 \*

## By-Laws

Adoption of By laws Vol. VII p 208  
May 1901 \*

Amendment Concerning Board of Managers  
Vol. XVI p 53 Jan., 1905 \*

Copy of By laws Vol. XVI pp 137-138  
Mar 1905 \*

Copy of By laws Adopted May 16 1902  
Vol. XIV pp 123 174 Mar 1903 \*

Creation of a Class of Fellows Vol. XIII  
p 220 June 1902 \*

Notice of Proposed Amendments Vol. XIII  
p 182 May 1902 \*

Proposed Change in By laws Vol. LXIII  
pp 876-879 Dec 1907 75c

Proposed Change Regarding Membership  
Vol. XI p 404 Oct 1900 \*

Proposed Changes in By laws Vol. XXXVII p 73 Mar 1900 50c	
Amendments	292
Board of Trustees	292
Dues	292

Proposed Changes in By laws, Especially  
Regarding Membership Vol. XII pp  
167 168 Apr 1901 \*

## Committees:

Advisory Committee for Stratosphere Flight  
Vol. LXVI pp 109-110 July 1934 30c  
pp 398 411 Oct., 1934 50c

Appointment of Committee to Nominate  
President Vol. XIV p 254 June 1903  
75c

Chairman of Committee on Eighth Interna-  
tional Geographic Congress Vol. XIII  
p 219 June 1902 \* Vol. XIV p 254  
June 1903. 75c

Committee Appointed to Consider Claims of  
Cook Vol. XX, p 1009 Nov., 1909 75c

Committee Appointed to Consider Claims of  
Leahy and Cook Vol. XX pp 921-922,  
1009 Nov., 1909 75c.

Committee Appointed to Examine Records of Byrd Arctic Expedition Vol. L, pp 377 385-388 Sept., 1906 50c	
Members of committee	384
Reports approving records	377 384-388

Committee to Present Honorary Membership  
to President Wilson Vol. XXXIII p 369  
Apr., 1918 50c

Committee for 1906 Vol. LXII p 249  
Apr., 1906 \*

**National Geographic Society****Committees—Continued**

Committees of 1907 Vol XVIII, p 210,  
Mar, 1907 \*

Editorial Committee Vol X, p 222 June,  
1899 \*

Prize Committee Vol X, p 32, Jan, 1899  
\$150

Research Committee Vol XVII, p 205,  
Apr, 1906 \* Vol XX, p 486 May, 1909  
75c, pp 921-922, Nov, 1909 75c

Standing Committees Appointed by Alex  
ander Graham Bell Vol XIII, p 118,  
Mar, 1902\*, p 150, Apr, 1902 75c

**Editorial Departments:**

Announcement of the Death of Ralph A  
Graves, Senior Assistant Editor Vol  
LXII, p 606, Nov, 1932 50c

Assistant Editor Appointed Vol X, p 222,  
June, 1899 \*

Editorial Committee Vol X, p 222, June,  
1899 \*

Grosvenor, Gilbert H Address by Vol  
XXV, pp 679-680, June 1914 \*

Grosvenor Gilbert H Appointed Editor in  
1899 Vol XXIII, p 274 Mar, 1912 \*

Grosvenor Gilbert H President Taft's Ap-  
preciation of Vol LXII, p 276 Mar,  
1911 \*

Grosvenor, Gilbert H Private Office of  
Editor Vol XXV, III 460, Apr, 1914 \*

La Gorce, John Oliver Private Office of  
Associate Editor Vol XXV, III 461,  
Apr, 1914 \*

Policy of The Magazine Vol XX, p 486,  
May, 1909 75c

Report of the Director and Editor of the  
National Geographic Society for the Year  
1914 By Gilbert H Grosvenor Vol XVII,  
pp 318-320, Mar, 1915 50c  
Dr Grosvenor's first years as Editor 318-319  
Growth of The Society since 1899 319 320  
Magazine policy adopted by Dr Grosve-  
nor 319

Report of the Editor for 1912 Vol XXIV,  
pp 251-253, Feb, 1913 \*  
Advertising policy 253  
Appreciation in Boston Herald 253 255  
Educational purpose 253  
Increase in circulation 252-253

See also Introduction to this Index pp 1 16

**Excursions:**

Annual Excursion to Annapolis Maryland  
Vol XIV, p 217, May, 1903 \*

Annual Excursion to Brandywine, Delaware  
Vol VII, p 208, May 1901 \*

Annual Excursion to Gettysburg Pennsyl-  
vania Vol XIII p 150 Apr, 1902 75c

Annual Excursion to Luray Caverns, Vir-  
ginia Vol XVII p 302, May, 1906  
75c p 358-359 3 Ills, June, 1906 \*

National Geographic Society Eclipse Expedi-  
tion to Norfolk Virginia Vol XI p 320,  
Aug 1900 75c

**National Geographic Society****Excursions—Continued**

Scientific Work of the National Geographic  
Society's Eclipse Expedition to Norfolk,  
Virginia By Simon Newcomb Vol XI,  
pp 321-324, Aug, 1900 75c

**Expeditions:**

Africa Hunting an Observatory A Suc-  
cessful Search for a Dry Mountain on  
Which to Establish the National Geo-  
graphic Society's Solar Radiation Station  
By C G Abbot Vol L, pp 503-518, 13  
Ills, 1 quarter page map, Oct 1926 50c

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of the Sun" By Mrs William H Hoover  
Vol LVII, pp 483-506, 17 Ills, 1 third  
page map, Apr, 1930 50c

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casting the Weather The National Geo-  
graphic Society to Maintain a Solar Sta-  
tion in a Remote Part of the World to Co-  
operate with Smithsonian Institution Sta-  
tions in California and Chile By C G  
Abbot Vol XLIX, pp 111-126, 15 Ills,  
1 chart, Jan, 1926 50c

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ports and Cables Concerning Roosevelt's  
African Expedition) Vol XXI, pp 263-  
370, 5 Ills, Apr, 1910 \*

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97 Ills in black and white, 38 Ills in color  
1 two page map, Apr, 1931 50c

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Kites and Birdlike Gliders the National  
Geographic Society Has Aided and En-  
couraged the Growth of Aviation (His-  
tory of The Society) Vol LII, pp 233-  
242 13 Ills, Aug, 1927 50c

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1919 Katmai Expedition Vol XXXV, p  
366 Apr, 1919 50c

Alaska Appropriation for Fifth Expedition  
to the Valley of Ten Thousand Smokes  
Vol XXXIII, p 372, Apr, 1918 50c

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of 1909 Vol XXI, p 88, Jan 1910 \*

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tions Vol LXV pp 625-626 May, 1934  
50c

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Brown Bear Adventures of the National  
Geographic Society's Pavlov Volcano Ex-  
pedition to Alaska By Dr Thomas Au-  
gustus Jagger Vol LV pp 109-134 30  
Ills, 1 three-quarters page map, Jan,  
1929 50c

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Expedition Vol XX, pp 581-584 June,  
1909 75c

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searches in Alaska By Lawrence Martin  
Vol XXII, pp 537-561 17 Ills 1 page  
and 4 half page maps June, 1911 \*

Alaska National Geographic Society's Alas-  
kan Expedition Vol XXI p 370 Apr,  
1910 \*

## National Geographic Society

## Expeditions—Continued

Alaska National Geographic Society's Alaskan Expedition of 1909 By Ralph S. Tarr and Lawrence Martin Vol XXI pp 154-42 illus 4 page and 7 half page maps Jan 1910 \*

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## National Geographic Society

## Expeditions—Continued

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## National Geographic Society

## Expeditions—Continued

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- Arctic Regions Wellman Polar Expedition Vol V, pp 481-505, 10 pls, 1 half page map, 1 diagram, Dec, 1899 \*
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- Arctic Regions Wellman Polar Expedition By J Howard Gore Vol X, pp 267-268, July, 1899 \*
- Arctic Regions Ziegler Polar Expedition Vol XIV, pp 414-417, 5 pls, Nov, 1903 \*
- Arctic Regions Ziegler Polar Expedition Vol XV, pp 427-428 Oct, 1904 \*
- Arctic Regions Ziegler Polar Expedition Vol XVI, p 198, Apr, 1905 75c
- Arctic Regions Ziegler Polar Expedition Vol XVI, pp 439-440, Sept, 1905 75c
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## National Geographic Society

## Expeditions—Continued

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## National Geographic Society

## Expeditions—Continued

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## National Geographic Society

## Expeditions—Continued

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## National Geographic Society

## Expeditions—Continued

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## National Geographic Society

## Expeditions—Continued

West Indies Report by Robert T Hill on the Volcanic Disturbances in the West Indies Vol XLIII pp 223-267 13 illus 2 page and 1 half page maps July 1902 75c

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## Fellows:

Alexander Graham Bell's Proposal Regarding Fellows Vol X pp 404-405 Oct., 1900 \*

Change in Bylaws Instituting a Class of Fellows Vol XLIII p 220 June 1902 \*

Notice of Proposed Amendment to Bylaws Vol XLIII p 182 May 1902 \*

## Finances:

Finances Vol XI p 405 Oct 1900 \*  
Vol XVII pp 23 24 Jan 1906 75c Vol XLIII pp 273 275 Mar., 1912 \* Vol XLIV p 115 Jan 1913 \* p 252 Feb 1913 \* Vol XLVII pp 318 320 Mar 1915 50c

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See also *Bequests and Prizes*

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World Travels Made by The Society's Flag Vol LVIII p 655 June 1930 50c

## History:

See also Introduction to this Index pp 1 16

Achievements of The Society Vol XXXIII p 170 Feb 1918 \*

Address by Alexander Graham Bell on History of National Geographic Magazine Jan 26 1912 Vol XLIII pp 272 276 Mar 1912 \*

Address of the President to the Board of Managers, June 1 1900 By Alexander Graham Bell Vol XI pp 401-408 1 chart Oct 1900 \*

## National Geographic Society

## History—Continued

Annual Dinner of the National Geographic Society Vol. XVII pp 27-37 Jan 1908	75c
Finances	23-24
Founders	23
Hubbard Memorial Hall	24
Membership	23

National Geographic Society By John Hyde  
Vol. X pp 220-223 June 1899 \*

Assistant Editor appointed	222
Editorial Committee	222
Influence of The Society	222
Magazine	221-222
Members	221-223
Object	221
Presidents	222

## National Geographic Society and Its New Building Vol. XXV pp 454-470 11 Ills Apr 1914 \*

Expeditions	459-465
Geographical distribution of membership	465-470
Growth of The Society	455-457
Photograph of officers and members	458

## National Geographic Society's Notable Year Vol. XXVII pp 338-345 2 Ills, Apr 1920 \*

Announcement of the deaths of Brig Gen John M. Wilson Rear Adm John E. Pillsbury and Rear Adm Robert E. Peary	345
Award of 8 Jane M. Smith life membership	342-343
Election of Gilbert Grosvenor as President	345
Election of John Oliver La Gorce as Vice President	345
Geographic News Bulletins and School Service	343
Greely (Maj Gen) A. W. Presentation of medal to Stefansson by	339-342
Hubbard Gold Medal awarded to Stefansson	338-342
James C. Morgan Bequest	338
Magazine circulation	343
Peary (Rear Adm) Robert E. Last public appearance of	333
Photograph of Peary Stefansson and Greely	Ill 318
Previous recipients of Jane M. Smith life memberships	342
Purpose of The Society	345
Sixth Antimal Expedition	378

## Report of the Director and Editor of the National Geographic Society for the Year 1914 By Gilbert H. Grosvenor Vol. XVII pp 318-370 Mar 1915 60c

Appropriations for research	370
Amelia	318-370
Bell Alexander Graham Funds contributed by	318
Early History of The Society	319
Growth of The Society since 1907	370
Lecturers	370
Magazine policy adopted by Dr. Grosvenor	319
Membership	318

## National Geographic Society

## History—Continued

## Report of the Editor for 1912 Vol. XXIV pp 251-255 Feb 1913 \*

Expeditions	251
Funds	251-252
Growth of The Magazine	252
Growth of The Society	272
Membership	255

## Speech by Alexander Graham Bell at Annual Banquet, January 1917 Vol. XXIII pp 272-275 Mar 1912 \*

Buildings	273
Change in membership policy	273
Committee on Research	275
Expeditions	275
Fellows	274
Finances	273-275
Founding	273

## Gilbert H. Grosvenor elected Editor of Magazine in 1899

## Magazine policy and growth 273-274

## Speech by James Howard Gore at Annual Banquet January 1910 Vol. XXI pp 67-68 Jan 1910 \*

Membership	67
Organization	67-68
Purpose	67

## See also Banquets Board of Managers Board of Trustees Buildings By-Laws Meetings Membership and Receptions

## Honorary Members:

## Amundsen Roald Vol. XIX p 57 Jan 1908 75c

## Bryce James Election of Vol. XXIII pp 272-275 Mar 1912 \*

## Charcot Jean Election of Vol. XXIV p 127 Jan 1913 \*

## Election of Adm George Dewey Roald Amundsen and Morris K. Jesup Vol. XVIII p 51 Jan 1907 75c

## List of Honorary Members Vol. XVIII p 51 Jan 1907 75c Vol. XXII p 214 Feb 1911 \*

## Jusserand J. J. Election of Vol. XXV pp 679-688 June 1914 \*

## McKibben William Election of Vol. X p 143 Apr., 1899 \*

## Peary Robert E. Election of Vol. XII p 643 June 1922 50c

## Photograph of Morris K. Jesup Vol. XVIII p 470 July 1907 75c

## Taft William H. Election of Vol. XXII p 214 Feb 1911\* pp 267-276 Mar 1911 \*

## Wilson Woodrow Election of Vol. XXVIII p 369 Apr., 1918 50c

## International Geographic Congress

## Address by Comdr. Peary at Eighth Congress Vol. XI pp 347-357 Oct., 1896 \*

## Chairman of Committee on 15th Congress Vol. XIII p 219 June 1907\* Vol. XIV pp 754-255 June 1913 75c

## Delegates to Ninth Congress Vol. XIX pp 243-246 May 1915 75c

## National Geographic Society

## International Geographic Congress—Continued

Delegates to Seventh Congress Vol X p.  
296 Aug 1899 \$150 p 480 Nov  
1899 \$150

Eighth International Geographic Congress  
Vol XIV pp 388-390 Oct 1903 75c  
Committee on Arrangements 390  
Plans 388-390

Ninth International Geographic Congress  
Vol XV pp 74-77 Feb 1904\*  
American Societies cooperating 74  
Discussion subjects 75-76  
Membership 75  
Officers and committees 76-77  
Publications 75  
Sessions and excursions 74

Tenth International Geographic Congress  
Vol XVI pp 297-310 July 1904\*  
American societies cooperating 297  
Headquarters 298  
Lectures and papers 306-310  
Meetings 297-298  
Membership 301-302  
Officers and committees 304-305  
Program 299-301  
Publications 303  
Registration 298  
Subjects for discussion 302-303  
Transportation 301

Eleventh International Geographic Congress  
Vol XVI pp 419-426 2 vols Oct 1904\*  
Entertainment 420 423 424-425  
Gilbert Grove Karl Speech by 419  
Meetings and papers 420 424  
Photographs of members 421 422  
Telegram sent to President Roosevelt 420  
Walcott Charles D., Speech by 419

Twelfth International Geographic Congress Vol  
XVII p 297 July 1903\*  
Appointment of committees 297  
Plans for Eleventh Congress 297

Thirteenth International Geographical Congress to  
be Held in Washington By Gilbert H  
Grosvenor Vol XVII pp 321-357 4 vols  
Oct 1901 75c  
Delegates to seventh Congress 35  
Delegates to sixth Congress 357  
Invitation for eighth Congress extended by  
The Society 352-353  
Plans for entertainment of Congress 356-357

Program of Eleventh International Geographic  
Congress Vol XVII pp 378-386 Sept  
1904\*  
Map of Washington D C 375  
Officers and committees 384-386  
Washington sessions 383

Publication of Proceedings of Eleventh Inter-  
national Geographic Congress Vol XVII  
pp 198-199 Apr 1905 5c  
Editors 199  
Resolution 199

Resolutions Adopted by the Eleventh Interna-  
tional Geographic Congress Vol XVII pp  
415-418 Oct 1904\*

## Library:

Fund Bequeathed to Library by George T  
Nesley Vol XLIX p 474 Apr 1906\*

## National Geographic Society

## Library—Continued

Library Vol XLIV p 757 Feb 1913\*  
p 459 Apr 1913\* Vol LXV III 794  
June 1914 60c

## Life Members:

Award of 8 Jane M Smith Life Memberships  
Vol XXXVII pp 347-348 Apr 1900\*  
List and account of recipients 342-343  
Previous recipients 347  
Reasons for awards 347-348

Jane M Smith Bequest for Life Member-  
ships Vol XLIII p 104 Jan 1917\*  
Life Members Vol XLII p 711 Feb  
1910\* Vol XLIV p 253 Feb 1913\*

## Map Supplements:

Latest Map of Mexico Text accompanying  
special map supplement in colors Vol  
XXX p 88 July 1916 50c

Manchuria and Korea Text accompanying  
special map supplement Vol XV pp  
178-179 2 half page maps Mar 1904\*

Map of Europe Including the New Balkan  
States Text accompanying special map  
supplement in colors Vol XXVI pp  
191-192 Aug 1914\*

Map of Mediterranean Regions Text ac-  
companying special map supplement in  
colors Vol XXIII p 104 Jan 1917\*

Map of the North Polar Regions Text ac-  
companying special map supplement in  
colors Vol XVIII pp 454-455 July  
1907 75c

Map of the Philippines Text accompanying  
special map supplement Vol XIII p  
31 Jan 1900\*

National Geographic War Zone Map Text  
accompanying special map supplement in  
colors Vol XXXIII p 494 May 1918  
50c

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cial map supplement in colors Vol  
XXXIX pp 557-570 17 vols May 1921  
50c

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aries Established by the Peace Conference  
at Paris and by Subsequent Decisions of  
the Supreme Council of the Allied and As-  
sociated Powers By Ralph A Graves  
Text accompanying special map supple-  
ment in colors Vol XXXIX pp 157-177  
18 vols May 1921 50c

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of Our Country Text accompanying spe-  
cial map supplement in colors Vol  
LXIII pp 650-657 1 vol May 1933\*

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panying special map supplement in colors  
Vol XLV p 580 May 1924 50c

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Text accompanying special map supple-  
ment in colors Vol XLI pp 221-222  
Feb 1907 50c

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ing special map supplement in colors  
Vol XL pp 647-648 1 half page map  
Dec 1901 60c



## National Geographic Society

## Map Supplements—Continued

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Society's New Map of Asia Text accompanying special map supplement in colors Vol LXIV, pp 770-772 1 Ill Dec 1933 50c

Society's New Map of Europe Text accompanying special map supplement in colors By Gilbert Grosvenor Vol LVI pp 771-774 Dec 1929 \*

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Society's New Map of the World Text accompanying special map supplement in colors Vol XLII pp 690-691 Dec 1927 50c

Story of the Map Text accompanying special map supplement in colors Vol LXII pp 750-774 11 Ills Dec 1932 50c

## Medals:

Admiral Byrd Receives New Honor from The Society (Presentation by President Hoover of Special Gold Medal) Vol LXIII pp 2-8-38 4 Ills Aug 1930 50c

Basis of award 232

Photograph of medal Ill 233

Presentation by President Hoover 231-232 Ill 233

Two of The Society's Medals awarded Byrd 270

Air Conquest From the Early Days of Giant Alces and Birdlike Gliders the National Geographic Society Has Aided and Encouraged the Growth of Aviation (Hubbard Gold Medal Awarded Lindbergh) Vol LII pp 233-242 13 Ills Aug 1927 50c

Basis of award 241 247

Byrd, (Comdr) Richard E. It is hereby notified by 241

Inscription Ill 234

## National Geographic Society

## Medals—Continued

## Air Conquest—Continued

Letter from Gilbert Grosvenor announcing award 242

Photograph of medal Ill 234

Previous recipients 242

Commander Byrd Receives the Hubbard Gold Medal The First Explorer to Reach the North Pole by Air Receives Coveted Honor at Brilliant National Geographic Society Reception (Also Presentation of Hubbard Gold Medal to Floyd Bennett) Vol L pp 377-388 5 Ills 1 chart Sept. 1926 50c

Acceptance of medal by Comdr Byrd 379-383

Basis of awards 378-379

Bennett, Floyd Hubbard Gold Medal presented to 377-379

Comparison of Peary's and Byrd's achievements 377-378

Photographs of medals Ill 382 385

Presentation of medals by President Coolidge 377-379 Ill 380

Previous recipients 377

Discovery of the North Pole Vol XXI pp 63-87 Jan 1910 \*

Basis of awards 63 75

Hubbard Gold Medal awarded to Grove Karl Gilbert 63 75

Hubbard Gold Medal presented to Capt Robert A. Bartlett by James Joyce 63 75-77

Inscriptions 63

Special Gold Medal presented to Peary by Willis L. Moore 63 73 74

Telegrams of congratulations 63 64

First Airship Flight Around the World Dr Hugo Eckener Tells of an Especial Geographic Achievement upon the Occasion of the Bestowal of the National Geographic Society's Special Gold Medal Vol LXVII pp 647-688 37 Ills June 1930 50c

Acceptance speech by Dr Eckener 653-681

Basis of award 643

Inscription 653

Presentation by Gilbert Grosvenor 653-655

Previous recipients 657

Telegram of congratulations from Byrd 648

Honors for Amundsen (Presentation of Hubbard Gold Medal by Charles W. Fairbanks) Vol LXV pp 55-76 13 Ills, Jan 1908 50c

Basis of award 56

Presentation 56-57

Honors to Amundsen and Peary (Hubbard Gold Medal presented to Amundsen by Peary) Vol LXIII pp 113-120 Jan. 1913 \*

Amundsen's acceptance speech 119-120

Photograph of medal Ill 118

Photograph of presentation ceremony Ill 119

Presentation by Peary 119

Honors to Colonel Gottlieb The Presentation by President Woodrow Wilson of the National Geographic Society's Special Gold Medal Vol LXI pp 677-680 6 Ills June 1914 \*

Acceptance speech 673 686

## National Geographic Society

## Medals—Continued

Honors to Colonel Goethals—Continued	
Basis of award . . . . .	679, 680, 683
Inscription . . . . .	679
Presentation speech . . . . .	679, 680, 683
Previous recipients . . . . .	679

Honors to Peary (Presentation of Hubbard Gold Medal by President Roosevelt). Vol XVIII, pp 49-60, 1 Ill, Jan, 1907	75c
Basis of award . . . . .	56
Design and inscription . . . . .	40, Ill 48
Presentation . . . . .	57

National Geographic Society's Notable Year (Award of Hubbard Gold Medal to Stefansson). Vol XXVII, pp 338-345, 2 Ills, Apr, 1920 *	
--	--

Achievements of Stefansson . . . . .	339-342
Basis of award . . . . .	340
Peary, (Rear Adm.) Robert E. Tribute to Stefansson by . . . . .	339
Photograph of Peary, Stefansson, and Greely . . . . .	Ill 318
Presentation of medal by Maj Gen A W Greely . . . . .	339-342
Tribute to Stefansson by members of Greely International Polar Expedition.	342

President Coolidge Bestows Lindbergh Award. The National Geographic Society's Hubbard Medal Is Presented to Aviator Before the Most Notable Gathering in the History of Washington Vol LIII, pp 132-140, 4 Ills, Jan, 1928	50c
Acceptance by Lindbergh . . . . .	135, 137
Inscription . . . . .	139
Presentation by President Coolidge	134-135, Ill 130

Race for the South Pole (Presentation of Hubbard Gold Medal to Sir Ernest H Shackleton) Vol XXI, pp 185-186, Mar, 1910 *	
Acceptance speech by Shackleton . . . . .	186
Basis of award . . . . .	185
Distinguished audience . . . . .	185
Presentation speech by President Taft	186

Resolution Awarding Medals to Peary and Bartlett Vol XX pp 1008-1009, Nov, 1909	75c
---	-----

Resolutions Concerning Medals Vol XX, pp 486-487, May, 1909	75c
Basis of awards . . . . .	487
Endowment of awards . . . . .	487
Purpose of medals . . . . .	486
Recommendations for awards . . . . .	487
Society medals . . . . .	487
Special medals . . . . .	487
Squires, Grant Endowment by . . . . .	487

Society Awards Hubbard Medal to Anne Morrow Lindbergh Vol LXV, pp 791-794 4 Ills, June, 1934	50c
Acceptance by Mrs Lindbergh . . . . .	792
Basis of award . . . . .	791
Bumstead, Albert H. Medal designed by . . . . .	793
Design and inscription . . . . .	791, 792, 793
Messages of congratulation . . . . .	793
Photograph of . . . . .	Ill 793
Presentation by Dr Grosvenor . . . . .	791-792, Ill 792
Previous recipients . . . . .	791, 792
Projection used for map design . . . . .	793

## National Geographic Society

## Medals—Continued

Society's Special Medal Awarded to Amelia Earhart First Woman to Receive Geographic Distinction at Brilliant Ceremony in the National Capital. Vol LXII, pp 358-367, 7 Ills, Sept, 1932.*	
Acceptance by Miss Earhart . . . . .	363, 367
Inscription . . . . .	359
Photograph of medal . . . . .	366
Presentation by President Hoover . . . . .	358, 362-363, Ill 366
Presidents of the U S who have presented The Society's medals . . . . .	362
Previous recipients . . . . .	359, 362

Special Gold Medal Presented to Peary Vol XXI, p 340, 1 Ill, June, 1910	75c
---	-----

## Meetings:

Annual Meeting January 10, 1902 Vol XIII, p 80, Feb, 1902	75c
Report of Secretary concerning membership . . . . .	80
Treasurer's report . . . . .	80

Annual Meeting, January 13, 1905 Vol XVI, p 87, Feb, 1905 *	
Board of Managers Election of members	87
Henry Gannett elected Vice-President . .	87
Secretary's report . . . . .	87
Willis L Moore elected President . . . .	87

Annual Meeting, January 14, 1910 Vol XXI, pp 88-90, Jan, 1910 *	
Board of Managers Election of members	88
Election of officers . . . . .	88
Secretary's report . . . . .	88-89
Treasurer's report . . . . .	89-90

Annual Meeting, January 13, 1911 Vol XXII pp 211, 214, Feb, 1911 *	
Board of Managers Election of members	211
Election of officers . . . . .	211
Membership . . . . .	211, 214
President Taft elected Honorary Member	214
Secretary's report . . . . .	211, 214
Treasurer's report . . . . .	214

Meeting of Board of Managers Vol XIV, pp 254-255 June, 1903	75c
Appointment of Chairman of Committee on Eighth International Geographic Congress . . . . .	254-255
Appointment of Presidential Nominating Committee . . . . .	254
Resignation of Alexander Graham Bell as President . . . . .	254

Meeting of Board of Managers Vol XVII, p 205, Apr, 1906 *	
Maj Henry E Hersey appointed representative of The Society on Wellman Expedition . . . . .	205
Resolution concerning Wellman Polar Expedition . . . . .	205

Meeting of Board of Managers Vol XVIII, p 281, Apr, 1907	75c
Resolution subscribing to Peary Expedition of 1907-1908 . . . . .	281

Meeting of Board of Managers Vol XX, pp 486-487, May, 1909	75c
Research fund established . . . . .	486
Resolutions concerning medals . . . .	487



## National Geographic Society

## Memorials—Continued

- National Geographic Society's Memorial to American Troops: Fountain and Water Supply System Presented to Historic French Town of Cantigny, Where Our Overseas Soldiers Won Their First Victory in the World War. Vol XLIV, pp 675-678, 4 illus, Dec, 1923. 50c  
 American Legion Color Guard.....III. 670  
 Dedication of..... 675  
 Fund for memorial..... 676  
 Gore, James Howard. Presentation address by .....675-676

## Museums

- Exhibit Case Vol LX, color plate XVII, p 578, Nov., 1931. 60c.

- Hebrew Shekel Presented to Vol LXIV, III 259, Sept., 1933 50c

## North Pole Discoveries

- Discovery of the North Pole Vol XXI, pp 63-82, Jan., 1910 \*  
 Account of Peary's explorations .... 69-73  
 Hubbard Gold Medal presented to Capt Robert A Bartlett .... 63, 75-77  
 Special Gold Medal presented to Peary 63, 74-75

- Discovery of the Pole, Vol XX, pp 892-915, 11 illus, 1 page map, Oct., 1909 75c  
 Cook, Frederick A. Report by... pp 892-896  
 Peary, Robert E. Report by ... pp 896-915

- Memorial to Peary The National Geographic Society Dedicates Monument in Arlington National Cemetery to Discoverer of the North Pole Vol XLI, pp 639-646, 4 illus, June, 1922 50c  
 Denby, Edwin. Speech by...643-645, III 642  
 Grosvenor, Gilbert. Address by.. 641-643  
 Members and guests present 639, 641; III 640, 642  
 Peary a charter member of The Society. 641  
 Peary's career . . . 643-645  
 Peary's first address to The Society.. 641  
 Peary's last public appearance, last article, and last photograph were for The Society 641  
 Recognition of Peary by The Society 643  
 Roosevelt, (Col.) Theodore. Speech by 645  
 Stafford, (Mrs.) Edward. Monument unveiled by 639, III 644

- North Pole Vol XX, pp 821-822, Nov., 1909 75c  
 Committee appointed to consider claims of Peary and Cook . . . 821-822

- North Pole Vol XX, pp 1008-1009, Nov., 1909 75c  
 Committee appointed to consider claims of Cook . . . 1009  
 Medals awarded Peary and Bartlett 1008-1009  
 Recognition of Peary's discovery . 1008

- 'Peary's Discovery of the North Pole' (Pamphlet by J Hampton Moore), Presented to Members of The Society Vol XXI, p 276, Mar., 1910 \*

See also *Expeditions Arctic Regions*

## National Geographic Society

Officers. See *President, Secretary, Treasurer, and Vice President.*

- Photographic Laboratory. Vol LXIV, III 277, Sept., 1933. 50c

Photographic Surveys. See Clifton Adams, Gervais Courtellemont, Jacob Gayer, Gilbert Grosvenor, Melville Grosvenor, Hans Illidenbrand, Charles Martin, W. Robert Moore, Luigi Pellerano, Albert W. Stevens, Wilhelm Tablen, Maynard Owen Williams, Edwin L. Wisahed

- Preservation of Wild Life Encouraged by The Society. Vol LXII, p 263, Sept., 1932 \*

## Presidents

- Bell, Alexander Graham Vol X, p 222, June, 1899 \*

- Bell, Alexander Graham: Announcement of the Death of. Vol XLII, p 362, portrait, Sept., 1922. 50c.

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- Bell, Alexander Graham. Resignation of Vol XIV, p 254, June, 1903 75c

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- Gannett, Henry: Death of Vol XXVI, p 820, Nov., 1914 60c

- Gannett, Henry. Election of Vol XXI, p 85, Jan., 1910 \*

- Gannett, Henry. Speeches by Vol XXII, p 267, Mar 1911 \* Vol XXIII, p 272, Mar., 1912 \* Vol XXIV, p 115, Jan., 1913 \*

- Gilbert, Grove Karl. Career of Vol XI, p 289, 1 III, July, 1900 \*

- Gilbert, Grove Karl. Eighth International Geographic Congress Welcomed by Vol XV, p 419, Oct., 1904 \*

- Grosvenor, Gilbert. Address at Unveiling of Peary Memorial Vol XLI, pp 641-643, June, 1922. 50c

- Grosvenor, Gilbert. Air Travel by Vol LXIII, p 628, May, 1933 \*

- Grosvenor, Gilbert. Alaskan Lake Named for Vol XL, pp 222, 287, III 284, 288, Sept., 1921 50c Vol L, III 89, July, 1926 \*

- Grosvenor, Gilbert. Byrd's North Pole Flight Aided by Vol L, p 381, Sept., 1926 50c

- Grosvenor, Gilbert. Election of Vol XXXVII, p 345, Apr., 1920 \*

- Grosvenor, Gilbert. Gilbert Grosvenor Trail Antarctica. Vol LXIII, pp 184, 193, 198, air view 218 Aug., 1930 50c

- Grosvenor, Gilbert. Home of Vol LI, III 202, Feb., 1927 50c Vol LVII, III 592, May, 1930 50c

- Grosvenor, Gilbert. Letter Announcing Award of Hubbard Medal to Lindbergh Vol LII, p 242, Aug., 1927 50c

## National Geographic Society

## President—Continued

Grosvenor Gilbert MacMillan Arctic Expedition Accompanied by Vol XLVIII p 226 Ill 221 Aug, 1923 50c Ill 476 Oct 1925 \*

Grosvenor Gilbert Mount Grosvenor China Vol LVIII p 415 color plates VII, X Oct 1930 50c

Grosvenor Gilbert Nansen Received by Vol LVIII Ill 22 July, 1930 50c

Grosvenor Gilbert Photographs of Vol VII Ill 240 Mar., 1912 Ill 610 June 1922 Vol LVIII Ill 224 Aug 1923 Ill 476 Oct 1925 Vol L, Ill 380 Sept., 1926 Vol LIII Ill 135 Jan 1928 Vol LVII Ill 57 592 May 1930 Vol LVIII Ill 22 July 1930 Ill 230 273 Aug 1930 Vol LVII Ill 366 Sept., 1932 Vol LV Ill 790 792 June 1931

Grosvenor Gilbert Speech on the Occasion of the Presentation of Hubbard Gold Medal to Anne Morrow Lindbergh Vol LV pp 791-792 June 1934 50c

Grosvenor Gilbert Speech on the Occasion of the Presentation of Special Gold Medal to Admiral Byrd Vol LVIII pp 273-271 Aug 1936 50c

Grosvenor Gilbert Speech on the Occasion of the Presentation of Special Gold Medal to Amelia Earhart Vol LXII pp 359 362 Sept 1932 \*

Grosvenor Gilbert Speeches on the Occasion of the Presentation of Hubbard Gold Medal to Commander Byrd Vol L pp 377 383 Sept., 1926 50

Grosvenor Gilbert Speeches on the Occasion of the Presentation of Hubbard Gold Medal to Lindbergh Vol LIII pp 137 134 137 Jan., 1928 50c

Grosvenor Gilbert Speeches on the Occasion of the Presentation of Special Gold Medal to Fekner Vol LVII pp 633 650 681 688 June 1930 50c

Hubbard Gardiner Greene Vol V p 277 June 1899 \* Vol XVII pp 73 24 Jan., 1906 75c

Hubbard, Gardiner Greene Alaskan Glacier Named for Vol XLIX p 699 June 1906 \*

Hubbard Gardiner Greene Dedication of Hubbard Memorial Hall. Vol LXII pp 174-178 May 1902 \*

Hubbard, Gardiner Greene Tribute to Mrs Hubbard Vol XV p 1003 Nov 1909 75c

McGee W J Election of Vol XV p 176 Apr 1904 \*

Moore Willis L Election of Vol XVI p 87 Feb 1905 \*

Moore Willis L Photograph of Vol XVIII p 587 Sept., 1907 \*

Moore Willis L Special Gold Medal presented to Peary by Vol XXI pp 73-74 Jan 1910 \*

## National Geographic Society

## President—Continued

Moore Willis L Speeches by Vol XVII pp 23-27 29 32 34-35 Jan 1906 75c Vol XVIII pp 49-51 53 59 Jan 1907 75c Vol XIX pp 57 57 61-62 64 68-69 72 Jan 1908 75c Vol XX pp 77 78 82 84 86 89 91 Jan 1909 \* Vol XXI pp 63 67-69 73-74 78-79 Jan 1910 \*

History (Pearl Adm) John F Death of Vol XXXII p 345 Apr., 1920 \*

Pillsbury (Rear Adm) John F Photograph of Vol XXXII Ill 341 Apr 1920 \*

Thimmann O H Election of Vol XXVII p 218 Feb 1915 50c.

See also under individual names of presidents

## Press Reports:

Article on The Society in Boston Herald November 23 1907 Vol XVIII p 803 Dec 1907 75c

## Prizes:

Essay Contest on Norse Discoveries in America Vol V pp 31-37 Jan 1899 \$1.60

Chairman of Prize Committee 32

Judges of contest 32

Rules of contest 31-32

Essay Contest on Norse Discoveries in America Vol VI p 246 June 1900 \*

Award of prizes 246

Franklin E Burr Prize Awarded to Capt Albert W Stevens Vol LXI p 696 May 1934 50c

Grant Squires Prize Awarded to F H King Vol LXIV p 115 Jan 1913 \*

## Property:

Purchase of Lot Adjoining Hubbard Memorial Hall Vol XL p 487 May 1909 75c

## Research:

Appropriations for Research Vol XXVII p 370 Mar 1915 50c

Promotion of Research by The Society Vol XX pp 486-487 May 1909 75c

See also Expeditions

## Receptions:

Admiral Byrd Receives New Honor from The Society Vol LXIII pp 708-238 4 Ills Aug., 1930 50c

Article for The Magazine prepared by Byrd 708 Ill 279

Audience and distinguished guests 728 734-738

Byrd (Rear Adm) Richard E Address by 728 237 733

Byrd (Rear Adm) Richard E Gratitude for Society's aid 737 278

Decorations

Grosvenor Gilbert Introduction of President Hoover 737 731

Guests on platform 737

Luncheon in honor of Byrd and his party 237 233

Members of Byrd Expedition guests of The Society 237 238 Ill 230

## National Geographic Society

## Receptions—Continued

## Admiral Byrd—Continued

- Mrs Hoover long a member of The Society 231  
 Motion pictures of Byrd Expedition 232  
 Presentation of Special Gold Medal by President Hoover 231 232 ill 233  
 Reception by President Hoover at White House ill 230  
 Travels of President Hoover 231
- Annual Reception March 22 1899 Vol X p 348 Aug 1899 \$1 50
- Annual Reception April 12 1901 Vol XII p 167 Apr 1901\* p 208 May 1901\*
- Commander Byrd Receives the Hubbard Gold Medal The First Explorer to Reach the North Pole by Air Receives Coveted Honor at Brilliant National Geographic Society Reception (Also Presentation of Hubbard Gold Medal to Floyd Bennett) Vol I pp 377-388 5 ill 1 chart Sept 1926 50c
- Byrd (Comdr) Richard E Acceptance speech by 379-383  
 Chart of route of flight 386  
 Committee appointed to examine Byrd's records 377 384-385  
 Coolidge Calvin Presentation speech by 377-379  
 Difficulties of Byrd's achievement 384  
 Finances and equipment of Byrd Arctic Expedition 382  
 Grosvenor Gilbert Byrd Arctic Expedition aided by 381  
 Grosvenor Gilbert Speeches by 377 383  
 Importance of aviation in Arctic exploration 384-383  
 Instruments used by Byrd Arctic Expedition ill 378 379  
 Introduction of President Coolidge by Dr Grosvenor 377  
 MacMillan Expedition aided by The Society 379 381  
 Members and guests present 377  
 Personnel of Byrd Arctic Expedition 381  
 Presentation ceremony ill 380  
 Record of flight 383-383  
 Reports of committee approving Byrd's records 377 384-383  
 Tribute to Bomstead sun compass 381 ill 378  
 Wilbur Curtis D Speech by 383-384
- First Airship Flight Around the World Dr Hugo Eckener Tells of an Epochal Geographic Achievement upon the Occasion of the Bestowal of the National Geographic Society's Special Gold Medal Vol LVII pp 653-658 37 ill June 1930 50c
- Byrd (Rear Adm) Richard E Telegram of congratulations from 688  
 Eckener (Dr) Hugo Acceptance speech by 655-681  
 Grosvenor Gilbert Presentation speech 653-655  
 Members of audience 653  
 Tribute to Dr Eckener 653 655  
 World travels of The Society's flag 655

## National Geographic Society

## Receptions—Continued

- President Coolidge Bestows Lindbergh Award The National Geographic Society's Hubbard Medal Is Presented to Aviator Before the Most Notable Gathering in the History of Washington Vol LIII pp 132-140 4 ill Jan 1928 50c
- Contributions of U S to aviation 138  
 Coolidge Calvin Presentation speech by 132 134-135 ill 135  
 Geographical distribution of The Society's members 137  
 Grosvenor Gilbert Speech presenting President Coolidge 137 134  
 Grosvenor Gilbert Speech presenting Secretary MacCracken 137  
 Guests of honor on platform 132 ill 135  
 Lindbergh introduced by President Coolidge 133-134  
 Lindbergh's speech of acceptance 135 137  
 MacCracken William P Speech by 137-139  
 Members and guests present 137 140 ill 135  
 Motion picture of history of aviation 139-140  
 Presentation ceremony 132 133 134-135 ill 139  
 Radio broadcast of ceremony 139  
 Ticket lines ill 133
- Society Awards Hubbard Medal to Anne Morrow Lindbergh Vol LXV pp 791-794 4 ill June 1934 50c
- Grosvenor Gilbert Presentation speech by 791 792  
 Guests 791 792-793  
 Lindbergh Anne Morrow Acceptance speech by 792  
 Photographs of Officers and Mrs Lindbergh ill 790
- Society's Special Medal Awarded to Amelia Earhart First Woman to Receive Geographic Distinction at Brilliant Ceremony in the National Capital Vol LXII pp 358-367 7 ill Sept 1932\*
- Arrival of Miss Earhart ill 364  
 Audience 358-359  
 Decorations 358  
 Earhart Amelia Account of trans Atlantic flight 358 363-367 ill 359 360  
 First accounts of explorers contained in The Magazine 358  
 Grosvenor Gilbert Address introducing President Hoover 359 362  
 Guests on platform 358-359  
 Hoover Herbert Presentation by 358 362-363  
 Luncheon in honor of Miss Earhart 358  
 Reception of Miss Earhart by President Hoover at the White House ill 366  
 Tribute to Mrs Hoover 362
- Rhododendrons:**
- Rhododendron Seeds Presented to Golden Gate Park San Francisco by The Society Vol LV p 779 June 1929 50c Vol LXI p 478 Apr 1932 50c
- Rhododendrons Presented to Kew Gardens London by The Society Vol LV color plate IV p 579 May 1929 50c

## National Geographic Society

## School Service Departments

Geographic News Bulletins Vol XXXVIII  
p 343 Apr 1920 \*

Sight seeing in School Taking Twenty Million Children on a Picture Tour of the World By Jessie L. Burrall Vol XXXV pp 489 503 14 Ills June 1919 50c  
Educational value of The Society's photographs 499  
Pictorial Geography series 503  
Separate picture sets for schools 501  
Use of The Magazine in schools 497 499

## Secretaries:

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Austin O P Report by Vol XVI p 87 Feb 1905 \*

Austin O P Report by Vol XXI pp 89-89 Jan., 1910 \*

Austin O P Report by Vol XXII pp 211 214 Feb 1911 \*

Austin O P Report by Vol XXIV p 255 Feb 1913 \*

Henry A J Report by Vol XXIII p 80 Feb., 1907 75c

Henry A J Resignation of Vol XIV p 475 Nov 1903 \*

Hutchinson George W Photograph of. Vol. LXV Ill 790 June 1934 50c

See also Introduction to this Index

McGee W J Speech by Vol XIV, p 69 Jan 1908 75c

Newell, Frederick Haynes Resignation of Vol X p 474 Nov 1899 \$1.50

Stanley Brown Joseph Election of Vol. X p 475 Nov., 1899 \$1.50

See also under individual names of secretaries

## Sequoia National Park:

National Geographic Society Completes Its Gifts of Big Trees Vol XL, pp 85-86 July 1921 \*

Amount of funds subscribed 85-86

Area of purchase 85-86

Contributors to fund 85

Fall, Albert B Letter acknowledging gift 86

Our Big Trees Saved. Vol. XXXI pp 1-11 10 Ills., Jan., 1917 50c

Letter from Gilbert H Grosvenor to Secretary Lane announcing gift 5 7

Letter from Secretary Lane acknowledging gift 7

Resolution of Board of Managers appropriating purchase fund 5

Tablet commemorating The Society to be placed on one of the trees 7

Photograph of Sequoia National Park Vol. LXIV duotone plate V p 71 July 1933 50c.

Society's Gift of Big Trees. Vol. LXXVI p 231 Aug., 1934 50c

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Tittmann O H Speech by Vol XXIII pp 284 287 Mar 1912 \*

See also under individual names of vice-presidents

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Liberty Loan Investment 372-373

**National Geographic Society**

**War Work—Continued**

**National Geographic Society—Continued**

- National Geographic Wards . . . 373, 375  
 President Wilson's suggestions regarding  
 The Society's war work. . . 369  
 Society's war work directed by Gilbert  
 Grosvenor . . . . . 373  
 U S Military Hospitals . . . 370-373  
 War Savings Stamp club . . . 373  
 Practical Patriotism Vol XXXII, pp 270-  
 280, Sept., 1917. 50c  
 American Red Cross campaign aided by... 279  
 Food conservation advertised by..... 280  
 Liberty Loan campaigns aided by . . 279, 280  
 National Geographic Society Ward . . 280  
 Patriotic flag number of The Magazine  
 279, 280  
 Red Cross work by members of staff . . 279  
 Services of addressing department do-  
 nated . . . . . 279  
 Subscriptions donated to Army and Navy 280  
 Spirit of the Geographic Vol XXXIV, pp  
 434-440, 4 illus, Nov., 1918 50c  
 Contributions received . . . 434-435, 437  
 Geographic wards. . . 434-435, 437, 440  
 Message from a soldier in a Geographic  
 ward . . . . . 440

**National Geographic Society's Notable Year** Vol  
 XXXVII, pp 338 345, 2 illus, Apr., 1920 \*

**National Growth and National Character** By  
 W J McGee Vol X, pp 183 206, June, 1899 \*

**National Monuments**

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 367 369, 2 illus, Sept., 1904 \*

Everyday Life in Pueblo Bonito As Disclosed  
 by the National Geographic Society's Arche-  
 ologic Explorations in the Chaco Canyon Na-  
 tional Monument, New Mexico By Nell M  
 Judd Vol XLVIII, pp 227 262, 37 illus 1  
 two thirds page map Sept., 1925 50c

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 199 204, 2 illus, Mar., 1907 \*

Great Natural Bridges of Utah By Byron Cum-  
 mings Vol XXI pp 157 167, 7 illus, Feb.,  
 1910 \*

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 By Joseph E Pogue Vol XXII, pp 1048  
 1056, 6 illus, Nov., 1911 \*

New National Geographic Society Expedition  
 Ruins of Chaco Canyon New Mexico Nature  
 Made Treasure Chest of Aboriginal American  
 History, to be Excavated and Studied Work  
 Begins This Month Vol XXXIX pp 637 643  
 7 illus, June, 1921 50c.

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 Geographic Society Completes Its Explorations  
 In the Valley of Ten Thousand Smokes By  
 Robert F Griggs Vol XL, pp 219 232, 73  
 illus in black and white, 16 illus in color, 1  
 page and 1 three-quarters page maps Sept  
 1921 50c

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 June 1912 \*

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 694 719 36 illus in color, June 1923 50c

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 graphic Society. By Nell M Judd Vol XLI,  
 pp 323 331, 10 illus, 1 diagram, Mar., 1922  
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 By George C. Martin Vol XXIV, pp 131 181,  
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 50c

Ten Thousand Smokes Now a National Monu-  
 ment The President of the United States Sets  
 Aside for the American People the Extraor-  
 dinary Valley Discovered and Explored by the  
 National Geographic Society. Vol XXXV, pp  
 359 366, 5 illus, Apr., 1919 50c

Valley of Ten Thousand Smokes. An Account of  
 the Discovery and Exploration of the Most  
 Wonderful Volcanic Region in the World By  
 Robert F. Griggs Vol XXXIII, pp 115 169,  
 46 illus, 1 half page map, panorama, Feb.,  
 1918 \*

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 graphic Society's Explorations in the Katmai  
 District of Alaska By Robert F. Griggs Vol  
 XXXI, pp 12 68, 51 illus, 1 half page map,  
 Jan., 1917. 50c

Volcanoes of Alaska (Eruption of Mt Katmai  
 in June, 1912). Vol XXIII pp 824 832 11  
 illus, Aug., 1912 \*

Wheeler National Monument Vol XX, pp 837  
 840, 4 illus, Sept., 1909 75c

**National Parks**

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 White Vol LXXVI, pp 219 232, 14 illus, Aug  
 1924 50c

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 Vernon Bailey Vol XLVIII, pp 321 330 11  
 illus, Sept., 1925 50c

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 (Mount Desert Island) Vol XXIX, pp 622  
 626, 5 illus, June, 1916 50c

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 Proposed Mount McKinley National Park By  
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 illus, 1 half page map, Jan., 1917 50c

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 Adams Vol XXXIX, pp 645 650, 8 illus, June,  
 1921 50c

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 Park Opportunity By Orpheus Moyer Schantz  
 Vol XXXV, pp 430 441, 18 illus, Mar., 1919  
 50c

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 XXIX, pp 327 430, 71 illus in black and white,  
 33 illus in color, panorama, Apr., 1916 50c

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 Lane Vol XXXVII, pp 479 518, 25 illus in  
 black and white 8 illus in color, June, 1920  
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 of Big Trees Vol XL pp 85 86, July, 1921 \*

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 duotone Vol LXIV, pp 16 33, July, 1923  
 50c



## National Parks—Continued

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Mexico of Today By Don Juan N. Navarro Part I, Vol XII pp 152 157, Apr., 1901 \*  
Part II Vol XII pp 176 179 May, 1901 \*  
Part III Vol VII pp 235 238 June, 1901 \*

**Navassa Island, West Indies**

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**Navigating the Norge (Airship) from Rome to the North Pole and Beyond—The Designer and Pilot of the First Dirigible to Fly Over the Top of the World Describes a Thrilling Voyage of More Than 8 000 Miles** By Gen Umberto Nobile. Vol LII, pp 177-215, 36 pls, 1 page map, Aug, 1927. 50c

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Along the Old Spanish Road in Mexico: Life Among the People of Nayarit and Jalisco, Two of the Richest States of the Southern Republic By Herbert Corey. Vol XLIII, pp 223-281, 36 pls in black and white, 16 pls in color, 1 half page map, Mar, 1923 50c

**Nealley, George True**

Recent Requests by Members of the National Geographic Society. Vol XLIX, p 474, Apr, 1926 \*

**Neapolitan Blues and Imperial Purple of Roman Italy** 12 pls in color from natural-color photographs by Hans Hildenbrand Luigi Pellegrano, and Gervais Courtellemont Vol LXVI, pp 203-210, Aug, 1934 50c

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**Nedjet. See Nafaj**

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**Nellie, C. R.**

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**Nefj. See Saudi Arabia****Nelson, E. W.**

Awarded Jane M Smith Life Membership Vol XXXVII, p 342, Apr, 1920 \*

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**Larger North American Mammals** By E W Nelson Vol XXX, pp 385-472, 24 pls in black and white, 50 pls in color, special supplement in color, Nov, 1916 \*

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**Nelson, E. W.—Continued**

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From London to Australia by Aeroplane A Personal Narrative of the First Aërial Voyage Half Around the World. By Sir Ross Smith Vol XXXIX, pp 229-339, 76 pls in black and white, 8 pls in color, 1 page map, Mar, 1921 50c

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See also *Bali, Borneo, Java, Komodo, Krakatau, Nias, and Sumatra*

**Netherlands**

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Photographing Wild Game with Flashlight and Camera By George Shiras, 3d Vol XLII, pp 366-423, 70 Ills, July, 1906 75c

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Argosy of Geography (Sailing Ship) Vol XXXIX, supplement \$1 00, framed, \$5 00 Jan, 1921

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## Alaska—Continued

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## Alaska—Continued

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- Andorra Vol. LXIV, p 495 1 third page Oct., 1923 50c
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*print 10 x 8½ 50 cents framed 13½ x 12½ \$5.00*

**Vasco Da Gama at Calicut** Full color reproduc-  
tion of Salgado's canvas. *Unframed print*  
*10½ x 8½ 50 cents framed 14½ x 12½ \$5.00*

**Columbus at La Rabida** Pleading for support  
for his voyage Dehondencq's painting in exact  
colors. *Unframed print 8½ x 11½ 50 cents*  
*framed 16½ x 13½ \$3.00*

**The Oldest Living Thing** General Sherman  
Tree in Sequoia National Park green photo-  
grayscale. *Unframed print 9½ x 2½ 50 cents*  
*framed 11½ x 25½ \$4.00*

**Hark! George Sheras 3d's Grand Prize photo**  
graph of wild life woodland sepia. *Unframed print*  
*11½ x 8½ 50 cents framed 14½ x 10½ \$3.00*

**Babes in the Woods** Bear and cub sat in  
sepia. *Unframed print 11½ x 17 50 cents*  
*framed 13½ x 19½ \$3.00*

**The Palms** On the banks of the ancient Nile  
sepia photograph. *Unframed print 8½ x*  
*22½ 50 cents framed 11½ x 24½ \$7.00*

**The Hour of Prayer** The pious Moslem turns  
towards Mecca sepia photograph. *Unframed*  
*print 18 x 7½ 50 cents framed 20½ x 10 \$3.00*

SUPPLEMENT TO THE CUMULATIVE INDEX

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